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              IN THE UNITED STATES DISTRICT COURT
               FOR THE EASTERN DISTRICT OF TEXAS
2
                       MARSHALL DIVISION
3
                                      Civil Docket No.
   SIMPLEAIR, INC.
                                      2:11-CV-416
  VS.
                                     Marshall, Texas
4
5
                                     January 14, 2014
                                 * 1:00 P.M.
  MICROSOFT CORPROATION, ET AL
6
                    TRANSCRIPT OF JURY TRIAL
          BEFORE THE HONORABLE JUDGE RODNEY GILSTRAP
8
                  UNITED STATES DISTRICT JUDGE
9
   APPEARANCES:
10
  FOR THE PLAINTIFFS:
                          MR. GREGORY DOVEL
                          MR. JEFFREY EICHMANN
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                          MR. CALVIN CAPSHAW
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  FOR THE DEFENDANTS:
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24
  (Proceedings recorded by mechanical stenography,
   transcript produced on CAT system.)
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1
   APPEARANCES CONTINUED:
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                         Tyler, TX
8
                9
10
11
                       PROCEEDINGS
12
                 (Jury out.)
                 COURT SECURITY OFFICER: All rise.
13
14
                 THE COURT: Be seated, please.
15
                 All right. Before we bring in the jury,
16
   counsel were going to meet and confer over the lunch
17
  hour on a matter.
18
                 Is there anything to report to the Court?
19
                 MR. EICHMANN: Yes, Your Honor. May I
20
   approach?
21
                 THE COURT: You may.
22
                 MR. EICHMANN: We've reached an
2.3
             We've confirmed that we're not calling
  agreement.
24
  Mr. von Kaenel in our case-in-chief. The only time we
25
  might call him would be in rebuttal, if they present
```

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their challenge to their priority date, which they don't
1
2
   think they're going to do.
3
                  With those stipulations, as well as our
   agreement that they can go outside the scope in
4
5
   cross-examining Mr. Payne, we have agreement from Google
   that Mr. von Kaenel can stay in the courtroom, and he's
6
   now seated in the gallery right there.
8
                  THE COURT: Is that the Defendants'
9
   agreement?
10
                  MR. STOCKWELL: That's correct, Your
11
   Honor.
12
                  THE COURT: All right. Then Mr. von
   Kaenel is released from the Rule by agreement.
13
                  Anything else before I bring the jury
14
15
   back in?
16
                  MR. EICHMANN: No, Your Honor.
17
                  THE COURT: And we're ready to proceed
18
   with deposition clips; is that right, Mr. Dovel?
19
                  MR. DOVEL: That's right, Your Honor.
20
                  THE COURT: Okay. Bring the jury in,
21
   please, Mr. Floyd.
22
                  COURT SECURITY OFFICER: Yes, sir.
   All rise for the jury.
23
24
                  (Jury in.)
25
                  THE COURT: Welcome back from lunch,
```

```
1
   ladies and gentlemen. Please be seated.
2
                  All right. Is the Plaintiff prepared to
3
  call their next witness?
4
                  MR. DOVEL: Yes, we are, Your Honor. We
5
   call Francesco Nerieri through videotape.
                  THE COURT: All right. You may proceed.
6
7
                  (Video clip playing.)
8
                  QUESTION: Sir, can you state your name?
9
                  ANSWER: My name is Francesco Nerieri.
10
                  QUESTION: Who do you work for?
11
                  ANSWER: Google.com.
12
                  QUESTION: What work falls within your
13
  responsibilities?
14
                  ANSWER: I manage a team that works on
15
  services for Android.
16
                  QUESTION: In 2010, Google introduced the
   Cloud to Device Messaging service for third-party
17
18
   application developers, right?
19
                  ANSWER: Correct.
20
                  QUESTION: And in 2012, that service was
21
   deprecated and replaced with the Google Cloud Messaging
   service, right?
22
2.3
                  ANSWER: Correct.
24
                  OUESTION: And that service is still in
25
  operation today, right?
```

```
1
                  ANSWER: Correct.
2
                  OUESTION: Are there different servers
3
   that are used for the GCM as compared to the C2DM?
                  ANSWER: The servers that we use for GCM
4
5
  and C2DM are the same.
                  QUESTION: When Google introduced the
6
   C2DM service to third-party application developers in
8
   2010, the service made use of a backend server, right?
9
                  ANSWER:
                          Okay.
10
                  QUESTION: Correct?
                  ANSWER: Yes.
11
12
                  QUESTION: That same server or set of
13
   servers is used for not just the C2DM but also the
   Google Cloud Messaging service?
14
15
                  ANSWER: I believe so.
16
                  QUESTION: And do those backend servers
17
   process the information, the data that's been received,
18
   in the same way for both the C2DM and the GCM?
19
                  ANSWER: I believe so. There's been some
20
   refactoring, but to my knowledge, yes.
21
                  QUESTION: Before Google opened up the
   Cloud to Device Messaging service to third-party
22
   application developers --
23
24
                  ANSWER: Uh-huh.
25
                  QUESTION: -- third-party application
```

```
developers were still able to send messages to
1
   applications on the Android phone, right?
2
3
                  ANSWER: Correct.
                  QUESTION: One way they could do that is
 4
5
   if the application would maintain a persistent
   connection between the device and the application
6
7
   server, right?
8
                  ANSWER: Correct.
9
                  QUESTION: And the other way was if the
10
   application would not maintain a persistent connection
11
   but would open a connection up to the application
12
   server, access or download the information it needed,
   and then close out the connection, right?
13
14
                  ANSWER: That's another way.
15
                  QUESTION: Whenever an Android phone
16
   makes a connection to a server, such as a third-party
17
   application server, that requires the use of the CPU and
18
   the radio on the phone, right?
19
                  ANSWER: Correct.
20
                  QUESTION: Those two things draw on the
21
   battery, right?
22
                  ANSWER: Again, you're correct.
2.3
                  QUESTION: If an Android phone has five
2.4
   applications installed and wants to receive notification
25
  messages for each of those applications, it can receive
```

```
the messages through the GCM and the connection between
1
2
   the mobile connection server and the phone, right?
3
                  ANSWER: Correct.
                  QUESTION: Messages for each of those
 4
5
   five different applications, right?
                  ANSWER: Correct.
6
7
                  QUESTION: The phone doesn't have to
8
   maintain five separate connections to each of the five
9
   different application provider servers, right?
10
                  ANSWER: Correct.
                  QUESTION: If a third-party application
11
12
   provider wants to send a message through the Google
13
   Cloud Messaging service, not just send a request, but
   actually send a request, have a message be processed and
14
15
   delivered to the Android phone, that application
   provider must have an API key, right?
16
17
                           So for a third-party application
                  ANSWER:
18
   to have the message delivered to the phone, they must
19
   have a valid API key.
20
                  QUESTION: Only Google can provide a user
   or a third-party application developer with a valid API
21
   key, right?
22
2.3
                  ANSWER: API keys are generated by Google
   upon developer or user clicking on generate an API key.
24
25
                  QUESTION: They can't just make one up
```

```
themselves, right?
1
2
                  ANSWER: A user cannot generate an API --
3
  a valid Google API key themselves.
                  QUESTION: Only Google can generate that,
4
5
  right?
6
                  ANSWER: Google servers generate Google
7
  API keys.
8
                  QUESTION: If a third-party application
9
  developer wanted to successfully use the C2DM service to
10
   send a message to an Android phone, they would have to
  have a valid client log-in token?
11
12
                  ANSWER: To successfully deliver a C2DM
  message, you need to authenticate your request with a
13
  valid client log-in token.
14
15
                  QUESTION: It's the Google servers that
16
   generate the client log-in token, right?
17
                  ANSWER: So to generate a Google client
18
   log-in token from Google log-in credentials, yes, it is
19
   generated from the Google servers.
20
                  QUESTION: What is the registration ID
21
   that you're referring to?
22
                  ANSWER: It's another token that the
23
  third-party service needs to provide us.
24
                  QUESTION: How do they get that token?
25
                  ANSWER: To get a registration ID, an
```

```
1
   application on an Android device needs to request one.
2
                  QUESTION: How does that happen?
3
                  ANSWER: The application code on Android
   needs to perform the call register to the GCM framework
4
5
   on an Android device.
                  QUESTION: For the C2DM, did the
6
7
   application developer also need to have a registration
8
   ID and include that in their request to the frontend
9
   server?
10
                  ANSWER: For C2DM, the third-party server
   also needs a -- a registration ID, yes.
11
12
                  QUESTION: What is contained within the
   registration ID?
13
                  ANSWER: So as we were discussing before,
14
15
   there's the sender ID, so we can match the API key.
   There is an identifier of the device called Android ID.
16
   There's an identifier of the application, which is the
17
   Java package name of the application on an Android
18
19
            There is a certificate, which refers to a
20
   signature of the application. There is also a
21
   timestamp.
22
                  QUESTION: When a third-party application
2.3
   developer makes a connection to the frontend server, the
24
   frontend server will check to see if that application
25
   developer has a valid client log-in token in the case of
```

```
the C2DM or a valid API key in the case of the GCM; is
1
2
   that right?
3
                  ANSWER: So for C2DM, when -- when the
   data messaging frontend server receives a request to
4
5
   deliver a message, it would check if there is a -- a
   client log-in token, and that client log-in token is
6
7
   valid.
8
                  For GCM, when a third-party server wants
9
   to deliver a message to an Android device successfully
10
   via the data messaging frontend server, then we would
   check -- data messaging frontend server would check from
11
12
   the header if the API key is valid.
13
                  QUESTION: After the Google frontend
   server checks to see if the application developer has a
14
15
   valid API key in the case of the GCM or a valid client
16
   log-in token in the case of the C2DM, what's the next
17
   thing that occurs at the frontend server?
18
                          Well, to check whether the API
                  ANSWER:
19
   key -- stick to GCM now -- is valid, the third-party
20
   developers also needs to provide a registration ID. And
21
   so to check the validity, we have to check it against
   the registration ID.
22
2.3
                  QUESTION: When the data message server,
2.4
   the frontend server, receives a request from a
25
   third-party application developer, it will check to see
```

```
whether the developer has a valid API key and a valid
 1
  registration ID?
 2
 3
                  ANSWER: When we receive the request,
  when the data messaging server -- frontend server
 4
 5
  receives the request, it will check whether the API key
  matches that information in the registration ID so that
 6
   the sender who he is says he is.
 8
                  QUESTION: After it's determined that the
 9
   registration ID is valid, at that point, does the
10
   frontend server send the request to the data messaging
   service backend server?
11
12
                  ANSWER: So if you are talking about GCM
13
   only?
14
                  OUESTION: Yes.
15
                  ANSWER: After the registration ID check
   has been validated, if it's still in the frontend, then
16
17
   the request is sent to the backend.
18
                  QUESTION: And what happens once that
19
   reaches the GCM backend?
20
                  ANSWER: Well, then the backend accepts
21
   the message and the registration ID.
22
                  QUESTION: And what does the backend do
23
   at that point?
24
                  ANSWER: So once the backend receives the
25
  message, the request, as I -- as I was telling you
```

```
before, it might happen that now it does the check on
1
2
   the registration ID, whether it is valid.
3
                  But let's say that that's past, and so it
   sends the message to the Buzz router, as you can see
4
5
  from the other arrow, to Buzz.
                            When a Google application or
6
                  QUESTION:
7
   service sends data using an RPC call to the GCM backend,
8
   what happens at the GCM backend when that data arrives?
9
             So the first-party server involves an RPC call
10
   with the message payload and the registration ID, and
   the GCM backend then verifies the registration ID and --
11
12
   and invokes an RPC call to the Buzz system with the
13
   registration ID and then -- and the message payload, as
   discussed before, for the first-party server -- for the
14
15
   third-party servers. Sorry.
16
                  QUESTION: Does the GCM backend also
17
   invoke an RPC call to transmit the payload and
   registration ID to the Buzz router?
18
19
                  ANSWER: The GCM backend invokes an RPC
20
   call with the payload and the registration ID to the
21
   Buzz router.
                Yes.
22
                  QUESTION: And when that information is
23
  received at the Buzz router, what occurs?
24
                  ANSWER: When the Buzz router receives
25
   the registration ID and the payload, then it matches the
```

```
Android ID contained in the registration ID with an MCS
1
              So it invokes an RPC call to the MCS end
2
   end point.
3
  point with the payload.
                  OUESTION: Okay. How is it that the Buzz
4
5
  router can send just the payload to the MCS and the MCS
  then knows which device it's going to send the message
6
7
  to?
8
                  ANSWER: So the Buzz router sends the
9
  payload to an MCS end point.
10
                  QUESTION: Are you saying that when the
   Buzz router makes the transmission to the MCS it's
11
   sending it to a particular MCS end point that is
12
   dedicated solely to one connection to one Android phone?
13
14
                  ANSWER: Correct.
15
                  QUESTION: And how does the Buzz router
16
   address that transmission to that particular end point?
17
                  ANSWER: So if you recall, the GCM
18
  backend sends the payload and the req. ID, the req. ID
19
   contains the Android ID. The Android ID is the key to
20
   find the end point.
21
                  QUESTION: In what way is it the key to
   find the end point?
22
2.3
                  ANSWER: Well, the Buzz router knows the
2.4
  Android ID, end point.
25
                  QUESTION: What is the mobile connection
```

```
server and how does it relate to the Google Cloud
1
   Messaging for Android service?
2
3
                  ANSWER: The Mobile Connection Server is
   the service that an Android device connects to to keep
4
5
   the persistent connection open.
                  QUESTION: The Android phone will send a
6
7
   heartbeat to the Mobile Connection Server to keep open
8
   the connection between itself and the Mobile Connection
9
   Server; is that right?
10
                  ANSWER: Yes.
11
                  QUESTION: How frequently does the
   Android phone send a heartbeat signal to the Mobile
12
   Connection Server?
13
14
                  ANSWER: It does sometimes every 30
15
   minutes.
16
                  QUESTION: When a message is sent from
   the Google Cloud Messaging service to an Android phone,
17
18
   will that message always be sent through the connection
19
   maintained between the device and the Mobile Connection
20
   Server?
21
                  ANSWER: Correct.
22
                  QUESTION: When a message from the Google
   Cloud Messaging service or C2DM service is sent to an
23
24
   Android smartphone or tablet, that transmission is
25
   actually made by the Mobile Connection Server that the
```

```
phone or tablet is connected to, right?
 1
 2
                  ANSWER: So Mobile Connection Server,
 3
   once it receives a message, whatever the nature -- in
  this case, from GCM or C2DM, will send it down to the
 4
 5
  device via the TCP connection.
                  QUESTION: What are the differences on
 6
   how the GCM backend Buzz router and Mobile Connection
 8
   Server operate when this call flow shown on GCM
 9
   architecture internal projects is used, rather than the
10
   one on the prior place for external projects?
                  ANSWER: There is no change. There are
11
12
   no changes.
13
                  QUESTION: It's the same process that we
14
  went through?
15
                  ANSWER: The first-party process after
   the backend is the same exact process as the third-party
16
17
   service.
18
                  QUESTION: And the first thing on the
19
   device that receives the data is simply the antenna,
20
   right?
21
                  ANSWER: The serialized bits, as you
   define this data, the -- the serialized device, yes, it
22
23
   must go through the radio, I believe.
24
                  QUESTION: The CPU component is the
25
   central processing unit within the Android devices,
```

```
1
  right?
2
                  ANSWER: The CPU is a central processor
3
  unit.
                  OUESTION: All the Android -- all the
4
5
  Android phones and tablets have central processing
  units, right?
6
7
                  ANSWER: I suspect that every device that
8
  runs Android has a CPU.
9
                  QUESTION: And the Android operating
10
  system is executed by the CPU, right?
11
                  ANSWER: Operations and -- and bit
  translations are -- are operated by CPU, which is the
12
  role of CPU.
13
14
                  QUESTION: GMS contains the GSF, Google
15
  Services Framework, and within Google Services
  Framework, is the Google Cloud Messaging client
16
   component?
17
18
                  ANSWER: Yes, so the GCM APK, if it's an
19
  APK, contains the GSF APK, which contains the code for
  the GCM client.
20
21
                  OUESTION: When the data arrives at the
   GCM client on the Android phone or tablet, what occurs
22
23
  at that point?
24
                  ANSWER: So when the GCM client receives
25
  a message, he transforms it into an intent, which is a
```

```
Java object for Android, and the intent is broadcasted
1
2
  to the application.
3
                  QUESTION: When an application is running
  in the foreground, that means the application is not
4
5
  only running, but is opened and displayed to the user on
  the interface, right?
6
7
                  ANSWER:
                          When an application on Android
8
  runs in the foreground, it means that -- in an -- on an
9
  Android runs in the foreground. It means the user
10
   interface is visible on display to the user and the
11
   application is running.
12
                  QUESTION: And what does it mean for an
13
   application on the Android smartphone or tablet to be
  running in the background?
14
15
                  ANSWER: You know, on an Android
   smartphone, if an application runs in the background, it
16
  means that some memory is allocated to the application,
17
18
  but there is no user interface visible to the user.
19
   quess that's it.
20
                  QUESTION: Generally, there are three
21
   different states an application on an Android smartphone
22
   can be in, running in the foreground, running in the
  background, or not running at all; is that correct?
23
24
                  ANSWER: I -- I think so.
25
                  QUESTION: In each one of those states,
```

```
will the GCM client on the Android deliver the message
1
2
  received from the Google Cloud Messaging Service to the
3
  target application?
                  ANSWER: So if on an Android device, the
4
5
  GCM client code receives a message and intends to
  deliver it to the application, if the application is in
6
  foreground, it receive it. If it's in the background,
8
   it receives it. And if it's stopped, then the operating
9
   system will start the service which contains the
10
  broadcast receiver for GCM to receive the message.
                  OUESTION: In order to receive
11
12
  notification messages from the Cloud to Device Messaging
13
   service, the application on the Android phone does not
  need to maintain a persistent connection to the
14
15
   application developer servers, right?
16
                  ANSWER: If an application server sends a
17
  message through C2DM, then the application on the device
18
   for that particular message does not need to have a
19
   connection on their own server.
20
                  QUESTION: If the application does
21
  maintain a persistent connection to the application
22
   server, they can still receive messages from the
2.3
   application server that have been delivered by either
24
   the C2DM or GCM, right?
25
                  ANSWER: So you're saying that if an
```

```
application has a persistent connection to their own
1
2
   server and their server sends a message via GCM, the
  application can still receive that particular message
3
  via GCM?
4
5
                  QUESTION: Right?
                  ANSWER: That's correct.
6
7
                  QUESTION: And the same was true with
8
   C2DM, right?
9
                  ANSWER: Yes, the same is true with C2DM.
10
                  QUESTION: It doesn't matter whether that
   Android device is or is not connected to the third-party
11
12
  application server. As long as they are able to receive
13
  messages from the GCM or the C2DM, they can still
  receive messages from that application server through
14
15
   the service, right?
16
                  ANSWER: All right. So a third-party
17
   application can send a message to an application on an
  Android device using the GCM or C2DM service, yes.
                                                        I --
19
   I mean, that's all we have been discussing, in that way.
20
                  QUESTION: The Android phone maintains a
   persistent connection to the mobile connection server at
21
   Google, right?
22
2.3
                  ANSWER: Correct.
24
                  QUESTION: That's just one connection,
25
   right?
```

```
1
                  ANSWER: Correct.
2
                  OUESTION:
                             That single connection is used
3
  to send messages from the GCM to the Android phone,
  right?
4
5
                  ANSWER: That connection is a transfer
   layer for also -- for messages that come from GCM.
6
7
                  QUESTION: Regardless of which
8
   application provider originated the message, right?
9
                  ANSWER:
                           So if a third-party application
10
   sends a message to GCM, then eventually for that device,
   that connection to MCS will be used to receive that
11
12
  message.
13
                  QUESTION: It uses less CPU resources,
  less radio resources, and less battery to establish and
14
15
  keep open one connection between the Android phone and
16
   the Google servers than multiple connections between the
17
   Android phone and various application servers, right?
18
                  ANSWER: So we were comparing an
19
   application on Android device opening their own
20
   connection, and a connection open to GCM. Those
21
   connections, draw the same battery. If you're comparing
   multiple connections versus one, multiple draws more
22
23
  battery than one.
24
                  QUESTION: On the first page of
25
  Exhibit 36, in the chart titled GCM Daily Messages, we
```

```
see that for the most recent period, there are roughly
 1
 2
   14 billion log entries per day, right?
 3
                  ANSWER: Correct.
 4
                  QUESTION: And that corresponds to
 5
   somewhere between 7 billion and 14 billion messages that
   were sent on a particular day, right?
 6
 7
                  ANSWER: By -- 7 billion, a lower limit,
 8
   and 14 being an upper limit, but, yes.
 9
                  QUESTION: Is this data inclusive of C2DM
10
   requests and GCM requests?
11
                  ANSWER: Yes, this data includes every
12
   single message request.
13
                  QUESTION: Is this divided by geo
   location of the frontend servers?
14
15
                  ANSWER: No.
16
                  QUESTION: This is worldwide?
17
                  ANSWER: This is worldwide.
18
                  QUESTION: I'm going to mark as
19
   Exhibit 39 a copy of Google's responses to SimpleAir's
20
   second individual interrogatories served July 29th,
   2013.
21
22
                  On Page 3 of Exhibit 39, there's an
   individual Interrogatory No. 4 to Google. Tell me when
23
2.4
   you're there, sir.
25
                  ANSWER: I'm there.
```

```
1
                  QUESTION: This interrogatory, to
2
  paraphrase it, it asks Google to identify its
3
  non-infringing alternatives to the SimpleAir '914
  patent. And by that I mean different ways that Google
 4
5
   could design the -- the Cloud to Device Messaging
   service or the Google Cloud Messaging service so that it
6
   wouldn't infringe the '914 patent. Are you familiar
8
  with the response that Google has provided to this
9
   individual Interrogatory No. 4?
10
                  ANSWER: I am.
11
                  QUESTION: On Page 5, continuing on Page
12
   6, Google identifies various examples of ways that it
13
   could design or change the C2DM or GCM service to avoid
   claims of infringement by SimpleAir. Do you see that,
14
15
   sir?
16
                  ANSWER: Yes, I do.
17
                  QUESTION: Has Google ever considered any
18
   of the alternatives listed on Page 5 and 6 here?
19
                  ANSWER: We did not consider alternatives
20
   to the system we designed, not including these ones.
21
                  QUESTION: Including these ones, you
22
  mean?
2.3
                  ANSWER: Yeah, including these ones.
24
                  QUESTION: Has Google ever considered
25
   locating the servers for the Google Cloud Messaging
```

```
service exclusively outside of the United States so that
1
   it could avoid infringing SimpleAir's patents?
2
3
                  ANSWER: So we considered and we did move
  some servers, not exclusively all, to some other
4
5
   countries, and we did, but that's because where the
   capacity is. That's the only reason.
6
7
                  QUESTION: Has Google ever purposely
8
   designed a service so that foreign servers will be used
9
   to deliver data or messages to U.S. devices as a matter
10
   of course, not just as a backup if a closer one goes
   down?
11
12
                  ANSWER: Could be. I -- I don't know
13
   about that.
14
                  QUESTION: Can you identify any time in
15
   which that's ever happened?
16
                  ANSWER: I -- I just said could be.
17
   don't know about it.
18
                  QUESTION: That wasn't done in response
   to this lawsuit, right?
19
20
                  ANSWER: I wasn't aware of this lawsuit,
21
   so -- none of us were, so we did nothing in response to
   this lawsuit.
22
2.3
                  (Videoclip ends.)
24
                  MR. DOVEL: Your Honor, our next
25
   witness, via videotape deposition, will be Felipa Leme.
```

```
It should be about nine minutes.
1
2
                  THE COURT: All right. Proceed.
3
                  (Videoclip played.)
                  QUESTION: Would you please state your
4
5
  name for the record?
6
                  ANSWER: My name is Felipe De Almeida
7
  Leme.
8
                  QUESTION: What is your job?
9
                  ANSWER: I'm a software engineer.
                  QUESTION: Who do you work for?
10
11
                  ANSWER: Google.
12
                  QUESTION: I have in front of me a
13
  presentation. It's Bates labeled GOOG_SS_69957 through
14
   69973. It will be Exhibit 54. Are you familiar with
  Exhibit 54?
15
16
                  ANSWER: Yes.
17
                  QUESTION: What is Exhibit 54?
18
                  ANSWER: That's -- these are the slides
19
  for a presentation that I did at Google.
20
                  QUESTION: Who did you make this
21
  presentation to?
22
                  ANSWER: It's -- there's a conference
23
  internally called Mobile Week 2000 -- I think it was --
  I'm not sure if it was 2013 or 2012, but I made this
2.4
25
  presentation during this conference.
```

```
1
                  QUESTION: Okay. The second major step
2
  here says registration. What is registration?
3
                  ANSWER: Registration, that's the process
   I mentioned early on when I said actually was the first
4
5
   step, but that's when the application running on a
  particular device has to register itself with GCM so the
6
   GCM assigns a registration ID which in turn can be used
   to identify the -- that particular application running
8
9
   on that particular device.
                  QUESTION: What does MCS stand for?
10
                  ANSWER: That's the Mobile Connection
11
   Server I mentioned earlier when you asked me what
12
13
   services I worked on.
14
                  OUESTION: So the device has a connection
15
   to the Google Mobile Connection Server so that -- and
16
   that's how Google knows whether or not the device is
17
   connected or not; is that right?
18
                           That's right, yeah.
                  ANSWER:
19
                  OUESTION: And then based on the
20
   registration ID that's received from the third party,
21
   Google knows which device to look for in terms of
   whether or not it's connected or not; is that right?
22
2.3
                  ANSWER: The -- the registration ID, they
24
   can -- we can -- I don't recall the exact details, but
25
  basically there is a storage that says this registration
```

```
ID contains this -- it's a -- was assigned to this
1
2
  Android ID, which is the identifier of the device.
                                                        Then
3
  they can say -- they can -- there is another table from
  MCS where they say, okay, this device with Android ID is
5
  connect to this particular IP address, so they do this
6
  mapping.
7
                  OUESTION: So the fact that the GCM uses
8
  the MCS connection for all of these different
9
   third-party applications, that optimizes battery life;
10
   is that correct?
                  ANSWER: Yes, I believe so.
11
12
                  QUESTION: Why would using the same MCS
13
   connection rather than many different connections
   improve battery life?
14
15
                  ANSWER: Because any connection, it's --
16
   it's expensive resource. You need to keep socket open,
17
   file system, so there -- there's -- there's many work
18
  behind the scenes that operation system has to do, so
19
   the less connections open you have, the less processing
20
   power is -- processing is done by the CPU and system and
21
   then that -- that means less battery utilization.
22
                  QUESTION: What does the GCM backend do?
2.3
                  ANSWER: The GCM backend, it will decide
24
   if this -- they send a message right away, if the device
25
   is connected or stored for later delivery.
```

```
QUESTION: If the device is not connected
1
2
   and the GCM backend decides not to send a message right
3
  away, then what happens?
                  ANSWER: Then it stores the message on
4
5
  this Kansas database.
6
                  QUESTION: After the message goes to
7
  Buzz, then what happens?
8
                  ANSWER: This particular -- prior to
9
   that -- that's -- the Buzz infrastructure is outside of
10
   our group, so I don't know exactly how -- how it works.
   But basically it knows how to route because when the
11
12
  MCS -- when the device connect to MCS, we have the
13
   TCP/IP address of the device, and we have the Android ID
   of -- of the device, so that information, it's stored, I
14
   think, on Kansas. And then Buzz they can -- they can
15
   get that information and send the message.
16
17
                  QUESTION: So here on the diagram,
18
   instead of third-party server, we have first-party
19
   server. Do you see that?
20
                  ANSWER: Yes.
21
                  QUESTION: Does that mean it's just
   another Google server?
22
2.3
                  ANSWER: That's the terminology we use on
24
   the Android. First party means Google application.
25
                  QUESTION: Okay. So first-party server
```

```
here refers to a Google application server; is that
1
2
  right?
3
                  ANSWER: Yes.
                  OUESTION: And -- and the difference
4
5
  between this diagram versus the one for external
  projects is that this first-party server can communicate
6
  directly with the GCM backend and bypass the GCM
8
  frontend; is that correct?
9
                  ANSWER: Yes, that's correct.
10
                  QUESTION: Are there any other
  differences between the GCM architecture for the
11
  external projects and the internal projects?
12
                  ANSWER: The architecture is the same.
13
  It's just an option, the -- the third -- the first-party
14
15
   service, they have this option to talk to the backend
  directly, but the overall architecture is the same.
16
17
                  OUESTION: I'd like to mark another
18
  document. It's entitled Android Mobile Connection
19
   Service. It will be Exhibit 57. Are you familiar with
20
  Exhibit 57?
21
                  ANSWER: I'm -- I'm not -- I'm not
22
  familiar. To be honest, I don't think I saw this
  particular document before.
23
24
                  QUESTION: Okay. I'd like you to turn to
25
  the second page of Exhibit 57. There's a heading that
```

```
1
   says --
                  ANSWER: I'm sorry 57? 51?
2
3
                  QUESTION: Oh, I'd like to turn to the
   second page?
4
5
                  ANSWER: I'm sorry, okay, the --
                  QUESTION: Which is --
6
7
                  ANSWER: Exhibit 57.
8
                  QUESTION: Yes.
9
                  ANSWER: 9551. Okay.
10
                  QUESTION: Exactly. It says persistent
   connection and push mechanism. Do you see that?
11
12
                  ANSWER: Yes.
13
                  QUESTION: Underneath that, it says by
  consolidated all notifications on to the C2DM framework
14
15
   over one MCS connection, the server can minimize the
  number of open connections, optimized notifications
16
   across applications, and make the most efficient use of
17
18
  network and battery.
19
                  When it says minimizing the number of
20
   open connections, what does -- what does that mean?
21
                  ANSWER: That's what I mentioned before.
22
   By providing a framework like C2DM, many applications
  can use the same connection while if they didn't use
2.3
2.4
  that, each application would have to have their own
25
  connection.
```

```
QUESTION: I'd like to mark an additional
1
   document. It says Google Cloud Messaging for Android.
2
  It's a one-page document with Bates labeled
3
   GOOG_SS_2958. It will be Exhibit 60. Oh, sorry. It's
4
5
  actually a three-page document.
                  I'd like to mark another document that
6
7
   says Google Cloud Messaging for Android. It's Bates
   labeled GOOS -- I mean, GOOG_SS_2133. It will be
9
  Exhibit 61.
10
                  Are you familiar with Exhibits 60 and 61?
                  ANSWER: I'm familiar with Exhibit 60.
11
   61 seems to be the same, but it's kind of differently
12
   printed, so I'm not sure why, but...
13
14
                  QUESTION:
                            What is -- what are
15
  Exhibits 60 and 61?
16
                  ANSWER: That's the Google site page for
17
   the GCM project.
18
                  QUESTION: At the top next to Google
19
   Cloud Messaging team, it appears to be updated July 11,
   2012. Do you see that?
20
21
                  ANSWER: Yes.
22
                  QUESTION: About a third of the way down
  the page, it says, 3.5 billion messages a day, 200
23
24
  million active users, 40,000 developers. Do you see
25
  that?
```

```
1
                  ANSWER: Yes.
 2
                  QUESTION: Do you think that's an
   accurate statement as of July 2012?
 3
                  ANSWER: I believe it was.
 4
 5
                  QUESTION: So sometime between 2010 and
   2012, the C2DM and GCM services ramped up to 3.5 billion
 6
   messages, 200 million users, and 40,000 developers; is
 8
   that correct?
 9
                  ANSWER: That's what it says here.
10
                  QUESTION: On Exhibit 60, there's a kind
   of similar statement about a third of the way down the
11
   page. It says 11 billion messages a day, 450 million
12
13
   active users, and 30,000 active applications. Do you
14
   see that?
15
                  ANSWER: Yes.
16
                  QUESTION: Is it your understanding that
   there's now more than 11 billion messages a day, 450
17
18
   million active users, and 30,000 active applications for
19
   GCM?
20
                  ANSWER: I don't know how many or what's
21
   the current to date.
22
                  QUESTION: Do you believe that this
   document would accurately state the number of users and
2.3
24
  messages and applications?
25
                  ANSWER: I believe that when -- when this
```

```
1
   document was written, it was probably accurate.
2
                  (End of video clip.)
3
                  MR. DOVEL: Your Honor, our next witness
   via videotape deposition will be Angana Ghosh.
4
5
                  THE COURT: All right. Proceed.
                  (Video clip playing.)
6
 7
                  QUESTION: What is your name?
8
                  ANSWER: Angana Ghosh.
9
                  QUESTION: And where do you work?
                  ANSWER: I work at Google.
10
11
                  QUESTION: What is your job at Google?
12
                  ANSWER: I'm a product manager at Google.
13
                  QUESTION: What is the purpose of Google
14
  Cloud Messaging?
15
                  ANSWER: The purpose for Google Cloud
  Messaging was to provide a developer product, an ability
16
   for developers to send messages to their devices, or
17
18
  more specifically to their apps, so their apps can get
19
  more fresher content.
20
                  QUESTION: Is that the only purpose of
21
   Google Cloud Messaging?
22
                  ANSWER: That was -- that was the main
  goal for Google Cloud Messaging. The other goal was
2.3
24
  that there was C2DM or Cloud to Device Messaging, which
25
  was launched in beta. And what we found, that
```

```
developers loved it, but there were lots of features
1
2
  that were not great, so we wanted to improve the
  developer experience and make it full stream.
3
                  OUESTION: Before the break, we were
4
5
  talking about the Google Cloud Messaging team's efforts
  to reduce radio wake-ups. The reason the Google Cloud
6
  Messaging team was trying to reduce radio wake-ups was
8
  because radio wake-ups drain battery, correct?
9
                  ANSWER: That's correct.
10
                  QUESTION: And the Google Cloud Messaging
   team wanted to increase the life of -- the battery life
11
  of the Android device, correct?
12
13
                  ANSWER: That is correct because in the
  Android team, we consider battery as very important
14
15
   thing for our users.
16
                  QUESTION: Why do you consider battery to
  be a very important thing?
17
18
                  ANSWER: Because if there's no battery,
19
  people cannot use their devices.
20
                  OUESTION: And Android users care about
21
  having long battery on their phones, correct?
22
                  ANSWER: That is my understanding.
2.3
                  QUESTION: Google wants to provide the
24
  best battery experience to the users of the Android
25
  devices, right?
```

```
1
                  QUESTION: Like I said before, in the
   Android team, battery is something we deeply care about,
2
   so I'm not surprised that this statement appears in this
3
   document.
4
5
                  QUESTION: And that statement is correct,
6
   right?
7
                  ANSWER: Correct.
8
                  QUESTION: The new Google Cloud Messaging
9
   users, that is, developers who want to use Google Cloud
10
   Messaging, need to sign up for Google Cloud Messaging at
   the Google API console, correct?
11
12
                  ANSWER: As far as my recollection goes,
13
   that is correct.
                  QUESTION: And as a part of that process,
14
15
   they need to agree to the Google API in terms of service
16
   and obtain a simple API key, correct?
17
                  ANSWER: I do recollect that they have to
   agree to a TOS, but I do not recollect the name of the
18
19
   actual key that they have to -- they get as a result of
20
   the sign-up process.
21
                  QUESTION: And TOS is terms of service,
   correct?
22
2.3
                  ANSWER: That's correct.
24
                  (End of video clip.)
25
                  MR. DOVEL: Your Honor, our next witness
```

```
1
  will be Dr. Seenu Srinivasan. He'll be presented via
2
  videotape. We anticipate about an hour of direct, and
  then the Defendants will play his cross-examination, and
3
  then we'll have a brief redirect that we'll play via
4
5
  videotape as well.
6
                  THE COURT: What do you anticipate the
7
   total length to be?
8
                  MR. DOVEL: Approximately an hour-40ish.
9
                  THE COURT: All right. It's possible
10
   that I'll call for a recess in the interim. Just be
   aware of that.
11
12
                  MR. DOVEL: Yes, Your Honor.
13
                  THE COURT: Let's proceed at this time.
14
                  (Video clip playing.)
15
                  QUESTION: Good morning, Dr. Srinivasan.
16
                  ANSWER: Good morning.
17
                  QUESTION: To begin, what were the
18
   primary questions that you're here to answer for the
19
   jury?
20
                  ANSWER: How much is a market, the
21
   smartphone market, willing to pay for notifications sent
22
   using the infringing technology compared to the
  non-infringing technology. And if the infringing
23
24
   technology were offered has an option at this price,
25
  what fraction of Google Android smartphone users would
```

```
1
   purchase that option.
                  QUESTION: Did you find answers to these
2
3
   questions through your work in this case?
                  ANSWER: Yes, I did.
4
5
                  QUESTION: What were the answers that you
6
   found?
7
                  ANSWER: I found that the market's
8
   willingness to pay was $12.23, and approximately
9
   42 percent of Android smartphone users would purchase
10
   this option.
11
                  QUESTION: Is there a method or technique
12
   that can be used to accurately figure out the answers to
13
   the questions that you were asked -- to find for the
14
   jury?
15
                  ANSWER: Yes.
16
                  QUESTION: What is the name of that
   method or technique?
17
18
                  ANSWER: There is a market research
19
   technique called conjoint analysis. Conjoint is spelled
20
   C-O-N-J-O-I-N-T, conjoint analysis.
21
                  QUESTION: Are you an expert in conjoint
   analysis?
22
2.3
                  ANSWER: Yes.
24
                  QUESTION: I want to -- before we go
25
   through your work, describe your expertise for the jury.
```

```
And let's start back with your education. I understand
1
2
  you're -- you're a Ph.D. Did you go to college?
3
                  ANSWER: Yes.
                  QUESTION: Where did you go to college?
4
5
                  ANSWER: The first college I went to is
  the Indian Institute of Technology in India.
6
7
                  QUESTION: You went to college in India.
8
  Did you grow up in India, as well?
                  ANSWER: Yes, indeed.
9
10
                  QUESTION: Did you grow up in a small
11
  town or a big city?
12
                  ANSWER: In a small town.
13
                  QUESTION: After getting that degree, did
  you work or did you get more schooling?
14
15
                  ANSWER: I worked for a couple of years.
16
                  QUESTION: After doing that work for a
17
   couple of years, what did you do next?
18
                  ANSWER: I came to the United States to
19
   study at Carnegie Mellon University.
20
                  QUESTION: Where is Carnegie Mellon
21
   University?
22
                  ANSWER: It is in Pittsburgh,
23
  Pennsylvania.
24
                  QUESTION: What year -- did you get
25
  degrees from Carnegie Mellon?
```

```
1
                  Answer: Yes, I did.
2
                  QUESTION: What degrees did you get?
3
                  ANSWER: I got a Master's degree, as well
   as a Ph.D., that is Doctor of Philosophy.
4
5
                  QUESTION: In what subject did you get
   your Master's and your Ph.D.?
6
7
                  ANSWER: They were both in business
8
   administration.
9
                  QUESTION: Now, after getting these
10
   degrees from Carnegie Mellon, what did you do next?
11
                  ANSWER: I went to teach at the U --
   teach, as well as do research, at the University of
12
13
   Rochester.
14
                  QUESTION: And how long were you at
15
  Rochester teaching?
16
                  ANSWER: I was there for two -- three
17
   years.
18
                  QUESTION: And what did you do next?
19
                  ANSWER: I then came in 1974 to Stanford
20
   University.
21
                  QUESTION: How long were you at Stanford
22
   University?
2.3
                  ANSWER: Stanford University in
24
   California, I have been there from 1974 and continuing
25
   right now, 2013.
```

```
1
                  QUESTION: All right. So how many years
2
   total is that at Stanford?
3
                  ANSWER: That's 30 -- 39 years and going.
                  QUESTION: And are you a professor at
 4
5
   Stanford University?
                  ANSWER: Indeed.
6
7
                  QUESTION: What do you do as -- as a
8
  professor at Stanford? What are the primary things that
   you do?
9
10
                  ANSWER: Three things: Teaching,
11
  research, and some administration.
12
                  QUESTION: Have you taught any courses
   that relate to the work that you did in this case?
13
14
                  ANSWER: Yes, I did.
15
                  QUESTION: Can you briefly describe those
16
  to the jury for us?
17
                  ANSWER: There are two courses I taught
18
  through the Master's of Business Administration Program.
19
   One was called Customer Focus Product Marketing and
   another course was called Data Analysis.
20
21
                  OUESTION: And how do those relate
22
   generally to your work in this case?
2.3
                  ANSWER: Well, Customer Focus Product
24
  Marketing is very much related to this case. The topic
25
  is broadly -- if a company were to market a product,
```

```
what kind of features should they put in that product?
1
                  How should they price that product?
2
3
  the segments in the marketplace are. What kind of a
  product line, as opposed to a single product, they might
4
5
  want to come up with, et cetera.
                  And the data analysis course is very much
6
7
   to do with learning about statistics, which is relevant
8
   to this case.
9
                  QUESTION:
                             In your research, is there any
10
   research that you've done that relates to your work in
   this case?
11
12
                  ANSWER: Yes, indeed.
13
                  QUESTION: Is it a substantial amount of
   your -- of your research or just a small fraction of it?
14
15
                  ANSWER: A major portion of it.
16
                  QUESTION: Can you describe generally the
   research you've done that relates to your expertise that
17
   you applied in this case?
18
19
                  ANSWER: One topic is conjoint analysis.
20
   This is the method that I am using in this particular
   case, and methods for doing conjoint analysis, testing
21
   various aspects of it. I also have done some research
22
23
   on what the market is willing to pay for a feature.
24
                  QUESTION: As a result of doing your
25
  research, have you written any research publications
```

```
that have been published in recognized journals?
1
                  ANSWER: Indeed.
2
3
                  QUESTION: Over the years, approximately
  how many research publications have you had published in
4
5
  research journals?
                  ANSWER: A total of 80 research
6
7
   publications, of which about 30 are -- 34, maybe -- in
8
   -- 30, let's say, in conjoint analysis itself.
9
                  QUESTION: Are you and Dr. Green
10
   generally credited with having originated the -- this
11
   concept of conjoint analysis?
12
                  ANSWER: Yes. Yes, indeed.
13
                  OUESTION:
                             Now, in addition to doing
  research and publications, have you worked with
14
15
   companies who are selling products to consumers to apply
16
  your research to their products?
17
                  ANSWER: Yes, I do.
18
                  QUESTION: Let me ask you about some of
19
   those, and I've placed on the screen a slide that I want
20
   to ask you about. Do you recognize the -- what's
  referenced on the screen -- the various products that
21
   are referenced here?
22
2.3
                  ANSWER: Yes, I do.
24
                  QUESTION: Have you done work in
25
  connection -- on each of these products?
```

```
1
                  ANSWER: Yes, I have.
2
                  QUESTION: The next one relates to
3
   Sonicare Philips and electric toothbrushes. Can you
   describe your work in that connection?
4
5
                  ANSWER: So this was a project I had done
  for a company. This was in this case Philips. Sonicare
6
  is the name of a brand. And, again, this was done in
8
  the context of another market research company working
9
   with me. And the question was there were different
10
   features that they could add on to the product. And
   each of these features are -- are customers more
11
   interested in. And, again, a question of how much more
12
   are they willing to pay for those.
13
14
                  QUESTION: Did you use your conjoint
15
  analysis techniques in providing these answers?
16
                  ANSWER: Yes, I did.
17
                  QUESTION: Now, as a result of your
18
  research publications and your work on conjoint analysis
19
   and your research in the -- in the marketing research
20
   field, have you received any awards?
21
                  ANSWER: Yes, I have.
22
                  QUESTION: In particular, are there
   awards in the market research community that recognize
2.3
24
   outstanding work in the field?
25
                  ANSWER: Yes, there are.
```

```
1
                  QUESTION: What are those awards called?
2
                  ANSWER: There are three awards. One is
3
  called the Parlin Award, another one called the
   Churchill Award, and the third is called the Converse
4
5
  Award. And I've been lucky enough to receive all three
   of those awards.
6
7
                  QUESTION: Now, where do you live?
8
                  ANSWER: I live in Los Altos, California,
9
   which is right next to Palo Alto, California, not too --
10
   about 40 miles from San Francisco.
                  QUESTION: And can you tell us just --
11
12
   tell the jury briefly something about your family.
13
                  ANSWER: Yes, I have my wife of 41 years,
  married, and we have two grown sons.
14
15
                  QUESTION: And what does your wife do?
16
                  ANSWER: She's a kindergarten teacher.
17
                  QUESTION: Now, where is this videotaped
   testimony taking place? Where are we today?
18
19
                  ANSWER: This is in a conference room
20
   right next to this beautiful courthouse I saw last night
   in Christmas lights.
21
22
                  QUESTION: And what day is it today?
2.3
                  ANSWER: Today is December 19th, 2013.
24
                  QUESTION: Is -- what's the reason why
25
  we're taking your testimony today on video rather than
```

```
having you testify in January at the trial?
1
2
                  ANSWER: During January, I need to be
3
  teaching at the Indian School of Business in India, so
   that's it -- I'm teaching during that time.
4
5
                  QUESTION: And you won't be able to make
  it to the trial?
6
7
                  ANSWER: Yes.
8
                  QUESTION: Now, when did you first get
9
   involved with this matter concerning smartphones and
10
  doing this work for SimpleAir?
11
                  ANSWER: I want to say approximately June
12
   2011.
13
                  QUESTION: When you were hired by
14
   SimpleAir to do this work, were you told to reach any
15
  particular results?
16
                  ANSWER: No.
17
                  QUESTION: Were you told that the amount
18
   that you would be paid would be greater or lesser,
19
   depending on the results that you got?
20
                  ANSWER: Of course not.
21
                  QUESTION: And how is it that you're
   being paid? Is it a flat amount? Are you paid by the
22
23
  hour? How are you being paid?
24
                  ANSWER: I'm being -- being paid by the
25
  hour.
```

```
QUESTION: And how much is it that
1
   you're -- you're charging?
2
3
                  ANSWER: It is $900 an hour.
                  QUESTION: Is that your standard rate, or
4
5
   is that a rate that only applies to -- in this case?
                  ANSWER: It's my standard rate for both
6
   consulting to companies, as well as for expert witness
8
   such as this.
9
                  QUESTION: Is that the same rate that you
10
   would charge Google if they'd hired you to conduct a
   study on their notification service?
11
12
                  ANSWER: Yes. If they had hired me, yes.
13
                  QUESTION: If Google had hired you, would
  you have taken the same approach and came up with the
14
15
   same answer?
16
                  ANSWER: I would have taken the same
   approach, and I believe if I had done the same survey, I
17
18
   would have gotten the same result.
19
                  QUESTION: Do you have any bias against
20
   Google?
21
                  ANSWER: Of course not. It's a great
22
   company.
2.3
                  QUESTION: Let's talk about your specific
24
  work in this case. What technique did you use to find
25
  the answer?
```

```
1
                  ANSWER: Conjoint analysis.
2
                  QUESTION: Can you briefly describe to
3
   the jury what is conjoint analysis?
 4
                  ANSWER: When customers are choosing
5
  products in the marketplace, such as smartphones, there
  are different features of these products, there are
6
   different brand names, different prices. Conjoint
8
   analysis determines the values customers place on these
9
   different features, the brand name, and price.
                  QUESTION: How does conjoint analysis do
10
11
   that? Can you describe that generally?
12
                  ANSWER: It's a survey-based technique.
13
   It's a market survey-based technique. So you would do a
   survey with consumers in this market, ask them a series
14
15
   of questions, and through that -- and do some analysis,
   and as a result of that, you would get those answers.
16
17
                  QUESTION: In conjoint analysis -- are
18
   you familiar with survey techniques where people are
19
   asked just directly how much they are willing to pay for
20
   a feature?
21
                  ANSWER: Yes, I'm familiar with them.
22
                  QUESTION: Is that conjoint analysis?
2.3
                  ANSWER:
                          No.
24
                  QUESTION: Why -- why does conjoint
   analysis do something different?
25
```

```
1
                  ANSWER: If you ask a question directly,
 2
   research has shown that people tend to overstate what
 3
  they are willing to pay. Those answers are not
   accurate.
 4
 5
                  QUESTION: Are you familiar with the
   reputation of conjoint analysis in the market research
 6
   community as to whether or not it's good science?
 8
                  ANSWER: Yes.
 9
                  QUESTION: What is conjoint analysis'
   reputation in the -- in the -- in the market research
10
11
   community?
12
                  ANSWER: It's a very strong one, so much
13
   so that approximately 18,000 commercial applications
   occur all over the world each year.
14
15
                  QUESTION: Has it been tested and
16
   researched in -- in numerous research publications?
17
                  ANSWER: Yes, it has been.
18
                  QUESTION: Is it used by regular
19
   companies who are trying to determine the prices or
20
   features of their products?
21
                  ANSWER: Yes.
22
                  QUESTION: Now, in this case, what
2.3
   feature or features were you trying to find out
24
   information about when you did your survey?
25
                  ANSWER: There were three features which
```

```
were central to answering the question of how much the
1
2
  market is willing to pay.
3
                  QUESTION: And what are those three
  features?
4
5
                  ANSWER: One was notifications, whether
  you get notifications immediately or you don't get it at
6
   all. Another one was battery life. And a third one was
8
  price.
9
                  QUESTION: Why were you interested in
10
   finding about -- finding out information about battery
   life if the subject here is Google's notification
11
12
  system?
13
                  ANSWER: Because the technical expert in
  this case, Dr. Knox, had informed me through a
14
15
  mathematical formula that he had worked out that
  notification service -- services will, in general,
16
17
   reduce battery life, depending on the number of
18
  notification apps.
19
                  QUESTION: So why do you need then to
20
   take -- to measure battery life to come up with the
21
  market's willingness to pay answer that you came up with
   in this case?
22
2.3
                  ANSWER: Because the formula --
24
  mathematical formula that Dr. Knox gave showed that if
25
  you use the infringing technology, there will be some
```

```
reduction in battery life and that would not be affected
1
2
  by the number of notification apps.
3
                  On the other hand, if you use an
   alternative non-infringing technology, then the battery
4
5
  life would be reduced further, depending on how many
  notification applications there are. The greater the
6
  number of notification applications, the greater the
8
  drain on battery life.
9
                  QUESTION: Now, when you conducted your
10
   survey, did you just ask the survey takers to provide
   information about just notifications, battery life, and
11
12
  price, or did you include other things, as well?
13
                  ANSWER: I included 13 other features.
                  QUESTION: If you're just interested
14
15
  ultimately in those three things, notifications, battery
   life, and price, why did you include 13 other features?
16
17
                  ANSWER: If you ask the question only on
   those three, you put too much focus on them and people
18
19
   are likely to give inaccurate answers, as previous
   research has shown. Whereas, if I put those three
20
   features in the context of a larger set of features
21
   which are important to consumers, then you are more
22
23
   likely to get more accurate answers. And that was the
24
   reason.
25
                  QUESTION: Is that a standard practice in
```

```
1
   conjoint analysis?
2
                  ANSWER: Yes.
3
                  QUESTION: I've placed on the screen a
   list of features. Do you recognize this?
4
5
                  ANSWER: I do.
                  QUESTION: What is this list?
6
7
                  ANSWER: This is the list of features I
8
  had included in my conjoint analysis survey for this
9
  particular case.
10
                  QUESTION: In doing the survey, is -- is
   it necessary or unnecessary to include every -- every
11
12
  feature of a smartphone?
13
                  ANSWER: It is not at all important to
  include all relevant features. You want to have enough
14
15
   of other important features.
                  QUESTION: Enough for what?
16
17
                  ANSWER: So that the focus is not so much
18
   on the three features that I'm studying, so it is done
   in a larger context so consumers don't get to know
19
20
   exactly only those three features, but the question is
   in terms of in this case, 16 features. But it is not
21
  necessary to include all relevant features.
22
2.3
                  QUESTION: How would your results have --
24
  would your results have been proved or stayed the same
25
  or gotten worse if you'd included many more features,
```

```
say 30 or a hundred?
1
2
                  ANSWER:
                          It's my opinion that if you --
  an informed opinion, I might say, in the conjoint
3
  analysis area -- that if you include too many features,
4
5
  such as 30 features or a hundred features, whatever,
  then what will happen is that the questionnaire will
6
  become too long and complicated, customers will get -- I
  mean, the responders will get confused, the data will be
8
9
   less accurate, and then finally my result, therefore,
10
  will be less accurate.
11
                  QUESTION: Did you prepare a written
12
  report describing your work and your results in this
13
   case?
14
                  ANSWER: Yes, I did.
15
                  QUESTION: Now, do you understand that
   Google hired a -- an expert to review your report and
16
   comment on it?
17
18
                  ANSWER: Yes, I did.
19
                  QUESTION: Have you reviewed his
20
   comments?
21
                  ANSWER: I have.
22
                  QUESTION: As a result of reviewing his
   analysis and criticisms, did that cause you to conclude
23
24
   that there were any problems or issues with your work?
25
                  ANSWER: I don't believe so. I -- I
```

```
wrote a report -- supplemental report replying to Dr.
1
  Dhar, D-H-A-R, Dr. Dhar -- a supplemental report
2
3
  replying to his criticisms.
                  OUESTION: And what's the name of
4
5
  Google's expert that they hired?
                  ANSWER: Dr. Dhar, D-H-A-R.
6
7
                  QUESTION: Is there a standard approach
8
  in surveys to test whether you've got a sufficient
  number of attributes, whether you've got the attributes
  that are important to consumers?
10
11
                  ANSWER: There is one way of doing it,
12
  yes.
13
                  QUESTION: What is that?
14
                  ANSWER: That's doing a pretest of the
15
  study itself with consumers now, not with third-party
16
  reviewers.
17
                  QUESTION: Did you conduct such a pretest
18
  before you did your final survey in this case?
19
                  ANSWER: Yes, I did.
20
                  (Videoclip ends.)
21
                  MR. STOCKWELL: Your Honor, while
22
   counsel is switching, I want to renew our pre-trial
   objections to the remainder of this testimony.
23
24
                  THE COURT: Duly noted.
25
                  (Videoclip played.)
```

1

8

```
QUESTION: As a result of doing the
2
  pretest, what did that tell you about the adequacy of
  the feature that you had identified for your -- for your
3
   survev?
4
5
                  ANSWER: I concluded that I had an
   adequate representation of the important features that
6
   customers consider important in choosing smartphones.
                  QUESTION: Did you do anything to test
9
   the wording of the questions for the key features?
                  ANSWER: So I ran the survey earlier and
10
   found that the battery life question, the wording of
11
   that question, was confusing, and I changed it in the
12
13
   final survey that that is included. That is the basis
   of my conclusions in this particular case. So that was
14
15
   one thing I did change.
16
                  I also tested the notifications feature
17
   in terms of doing it one way, compared to another way,
18
   and found that it did not make a difference and,
19
   therefore, I pooled those results -- that is, I combined
20
   those results.
21
                  QUESTION: When was this survey taken
   that's the basis of your conclusions in this case?
22
2.3
                  ANSWER: February 2012.
24
                  QUESTION: Now, how many respondents did
25
  you actually use or select for your survey? How many
```

```
people took the survey?
1
2
                  ANSWER: There were 623 respondents who
3
  completed the survey.
4
                  QUESTION: Was that a big enough number
5
   of respondents to give you statistically accurate
   answers?
6
7
                  ANSWER: Yes. Based on the experience in
8
   conjoint analysis, the typical sample size is somewhere
9
   around 300 to 400 on average. So this is larger than
10
  that.
11
                  QUESTION: Now, when you did this review,
  was it limited just to -- just to Android users -- that
12
13
   is, people that use the Google Android operating system
14
   on their phones?
15
                  ANSWER: No, it was not restricted to
16
  them.
17
                  QUESTION: Why not?
18
                  ANSWER: It goes back to the question
19
   that we were asking. What is a market willing to pay?
20
  Because if Google Android system were to ask this
21
   question of what the market is willing to pay, when they
   put in this feature, part of the reason for putting in
22
  the feature is not only from the point of you're
2.3
   increasing the customer satisfaction of their current
24
25
  customers but also potentially to make other customers
```

```
attracted to this product so they would buy them.
1
2
  you want to survey not only your current customers, but
  you definitely want to include other customers -- that
3
  is, potentially who could be your customers in the
4
5
  future -- because you're trying to attract them.
                  QUESTION: Is that an accepted way to
6
7
   approach this problem?
8
                  ANSWER: It, in fact, is a correct way to
9
   do it.
10
                  QUESTION: I want to have you describe
11
   some of the details of the survey questions that were
12
   asked in your survey, but first, can you tell the jury
  broadly what the structure of your survey was?
13
14
                          There were three parts to the
                  ANSWER:
15
            The first part was about what we call
16
   demographics of the person taking the survey. The
   middle part, which is the main part of the survey --
17
18
   excuse me, is the conjoint analysis part of the survey.
19
   And then the final part had to do with asking the
20
   respondent some information about their particular
21
   smartphone and their pattern of using their particular
22
   smartphone in terms of downloaded applications and
23
  notifications, so on.
24
                  OUESTION: Let's talk about that first
25
  part, the demographic questions. Can you just generally
```

```
describe what those questions relate to?
1
2
                  ANSWER: So these are questions such as
3
  the gender of the respondent, the age of the respondent,
   their -- whether they are married, marital status, their
4
5
   information about their race and ethnicity, and finally
   about their annual family income.
6
7
                  QUESTION: Did you make use of this
8
   information in reaching your final results?
9
                  ANSWER: One need to check to what extent
10
  my sample is representative of coming into my survey is
   representative of the U.S. adult population in general.
11
12
                  So for that purpose, I used it and I made
   some adjustments because of that.
13
14
                           Now, let's talk about the
                  QUESTION
15
   conjoint portion of this survey. Can you describe to
16
   the jury the -- the sort of questions -- the first --
   the first part of the conjoint survey, what kind of
17
   questions were asked of the survey takers?
18
19
                  ANSWER:
                          So when they come into the
20
   survey on the conjoint part, they are first -- they
21
   first see the list of 16 features we saw before and some
   descriptions of those features, some information about
22
  what different values that feature can take, such as
2.3
  price can be $50 or a hundred dollars or $200 or $300,
24
25
   like that. Then they are asked for each feature which
```

```
has multiple levels, like the example I just gave you,
1
2
  how desirable or undesirable each of those levels are
3
  for each of those features.
4
                  QUESTION All right. I'm going to ask
5
  you -- put on the screen -- withdrawn.
                  I've put on the screen a sample of one of
6
7
  the pages or screen shots from the --
8
                  ANSWER: Right. I see it.
9
                  QUESTION: All right. Do you recognize
10
  this?
11
                  ANSWER: I do.
12
                  QUESTION: Can you just generally
13
  describe what is depicted here?
                  ANSWER: These are the different brands
14
15
   operating systems of -- operating systems of
16
   smartphones. So you have the brand name, as well as the
17
   operating system in that -- for that particular thing.
18
                  So, for example, Samsung, Android --
19
   let's say HTC Android, Apple iPhone, et cetera.
20
                  QUESTION: In the upper left-hand corner,
   the word ASEMAP, A-S-E-M-A-P, appears. What does that
21
  refer to?
22
2.3
                  ANSWER: That is a particular software
24
  and method that is used in conjoint analysis in this
25
  particular case.
```

```
1
                  QUESTION: Now, I put on the screen a
2
  blow-up from a portion of this page. Can you use this
3
  and just describe in one or two sentences how it is that
   a survey taker would respond to this?
4
5
                  ANSWER: So, for instance, in the very
  first line, they are asked to say that Samsung telephone
6
  using the Android operating system, how desirable or not
8
   at all desirable it is on a scale, so to speak. You can
9
   choose a number anywhere from 0 to 10. 10 would mean
10
   that it is extremely desirable, where 0 would mean that
   it is not at all desirable. And they are asked this
11
   question for other brand operating systems, such as the
12
13
   Apple iPhone.
14
                  QUESTION: Are they asked this sort of
15
   question just for the brand name, or does it -- is this
   also used for the other features in your survey?
16
17
                  ANSWER: For every feature it is used.
18
                  QUESTION: Same sort of analysis?
19
                  ANSWER:
                          Same sort of questions.
20
                  QUESTION: Okay. Now, what's the next
21
   part of this survey that they would see after doing this
   ranking of features and then identifying how important
22
23
   they thought they were?
24
                  ANSWER: Yeah. So you have 16 features
25
          So we asked them, first rank them in terms of
```

```
this is the most important feature, all the way down to
1
2
   the one which is the least important feature for that
3
  particular respondent. We don't assume these are common
   across people. So that's the next set of questions.
4
5
  And then we give them peer comparisons, ask them to
   compare two features at a time.
6
7
                  QUESTION: When you say two features, it
8
  would be just any -- any 2 of those 16?
9
                  ANSWER: Right. So this is where the
10
   computer intelligence comes -- comes in and the method
   and the software that I talked about. What this method
11
12
  does is it looks at all the data that the respondent has
13
   given so far and the computer kind of asks itself what's
14
   the most intelligent question I can ask this person
   next. And that is the question that is posed next.
15
16
                  Then the person gives their response.
   The computer takes in that response, does some analysis,
17
18
   and then asks itself what's the next question I should
19
   ask this person. Like that, 11 two-at-a-time questions
20
   were asked.
21
                  QUESTION: When you say two at a time,
   let's put up an example of one of those. Explain that
22
23
   to the jury. I've put up an example here.
24
                  ANSWER: Price and size?
25
                  QUESTION: Yeah. This is Slide 10.
```

```
1
   you just describe to the jury what is depicted here?
                  ANSWER: Yes. In this particular slide,
2
3
  they are shown two features, two of those 16 features.
   One is price, another one is screen size. And in front
4
5
  of them there are two bars. And one part of the bar is
  darker colored; another one is light. Those two bars
6
   are both currently equal in length to indicate that they
8
   are both equally important, so to speak, at this point.
9
                  The consumer is asked, which one of these
10
   two things are is more important to you? No. 1, how
   much important to you is the second question? So the
11
12
  person will click on the one they think is more
13
   important to them. Let's say price is more important to
  me than screen size in this case. Then I will click on
14
15
   price, and I will drag it to the right. That is, I have
   clicked on it and -- and with a computer mouse you will
16
   click -- click it to the right, like what you have shown
17
18
   just now. And in this case, for example, this person is
19
   saying that price is much more important to him or her
20
   compared to screen size.
21
                  QUESTION: Can the survey respondent
   select any portion along there with their -- their
22
2.3
  mouse?
24
                  ANSWER:
                           Indeed.
25
                  QUESTION: Well, my question is:
```

```
they all comparisons of price, or are they comparison --
1
   or do you have anywhere they're asked to compare two
2
3
  features?
                  ANSWER: They can be -- yes, they can be
4
5
  asked to compare two features where price is not one of
  them. Next slide.
6
7
                  QUESTION: Let's show an example of that.
8
  Can you explain what's on the screen now?
9
                  ANSWER: So in this particular case, we
  have touch screen -- that is, whether or not the
10
11
   smartphone has a touch screen. And No. 2, the
12
  notification feature. And this particular respondent,
13
   in answer to this particular question, is saying, well,
   the touch screen is somewhat more important than
14
15
  notifications.
16
                  QUESTION: What if a respondent, in
17
   taking the survey, concluded that for them notifications
   was of no importance, as compared to the feature that
18
   they were comparing to? If they, for example, thought
20
   that touch screen compared to the notifications was of
   no experience, how would that be indicated by the survey
21
   taker?
22
2.3
                  ANSWER:
                           In that case, they could move
24
  the touch screen all the way to the end or conversely
25
  they can put the notification -- put it all the way to
```

```
So like the picture that you are now showing
1
   the end.
2
  where you notice the touch screen is full hundred
  percent and the notification is just not showing at all.
3
                  So in this case, they're telling us that
4
5
  touch screen is just so much more important and
  notifications is not at all important, relative to each
6
   other.
8
                  QUESTION: Now, did you collect data like
9
   this from -- from each of those survey respondents about
10
  how they would trade off various features, including
  price and other features?
11
12
                  ANSWER: Yes, I did.
13
                  QUESTION: After the -- the paired
   comparisons were shown to the survey takers, what would
14
15
   be the next task that they would do then?
16
                  ANSWER: They were shown five
17
   smartphones, so to speak, describe only the five most
18
   important features to that particular respondent. So
19
   they will see first a smartphone. For that particular
20
   consumer, which are the five most important features for
   them -- to show them.
21
22
                  QUESTION: I ask you to slow down a
2.3
   little bit.
24
                  ANSWER: Yeah. So it will show it to
25
   them. And it will ask him or her, how likely is it you
```

```
would purchase this smartphone, assuming that all the
1
2
   other features are attractive?
3
                  QUESTION: After the survey takers
  provided responses to how likely they would be to buy
4
5
  phones, what's the next portion of the survey that they
   received?
6
7
                  ANSWER: Yeah. Just to be sure, on this
8
   likelihood of purchase, that question was asked of five
9
   different products, some very attractive and some not so
10
   attractive in terms of the features. So once I'm done
   with that, the question you're asking, is I ask them
11
   some questions about their particular smartphone.
12
13
                  QUESTION: Now, Dr. Dhar presented some
   criticisms in his report that I wanted to ask you about
14
15
   regarding the survey. One criticism he says is that the
   instructions describe the 16 features as ones that are
16
   important in choosing a smartphone, and he criticized
17
18
   that as saying that that would artificially inflate the
19
   importance of notifications and make the results
20
   invalid. Do you agree with that criticism?
21
                  ANSWER: I don't.
22
                  QUESTION: How does the comparison of one
  feature against another relate to whether or not there's
23
   going to be any inflation of value for one feature?
24
25
                  ANSWER: Let me put it this way. If you
```

```
ask a question of one-by-one each of the features how
1
   important they are, then I can see the possibility that
2
  it could have an inflated. That's not what I'm doing.
3
   I'm asking them to compare two features like you saw in
4
5
  those bars before, asking them how much more important
   is one compared to the other. So I don't believe there
6
7
   will be an inflation of importance because of that.
8
                  QUESTION: Now, the -- another criticism
9
   of Dr. Dhar's is that he says that this approach does
10
   not accurately model the decision making process of
   consumers. Do you agree with that criticism?
11
12
                  ANSWER: So Dr. Dhar is talking about the
13
  process by which consumers actually choose smartphones.
14
   Conjoint analysis is not a process model. It is a
15
   prediction model. In other words, conjoint analysis
16
   really says that it is not trying to exactly model the
   process by which actual consumers are using, but it is
17
18
   able to abstract it -- the essential elements of it --
19
   in such a way that it is able to predict what they are
20
   actually going to do. So it is more of a prediction
21
  model. So the fact it is not exactly the name of the
   process, it doesn't matter because prediction has been
22
2.3
   shown to be very high.
24
                  QUESTION: Dr. Dhar says that there are
25
   obvious respondent errors -- that is, errors in the --
```

```
for particular survey takers where they have --
1
   they've -- they've got -- they've given responses that
2
   just don't make sense, but they've said that they prefer
3
   a higher price to a lower price or lower battery life to
4
5
  higher battery life. What -- have you read his
   criticism in that regard?
6
7
                  ANSWER: Yes, I have seen that criticism.
8
                  QUESTION: What is your response to that
9
   criticism?
10
                  ANSWER:
                          Well, in practical conjoint
   analysis surveys in the real world, some people make
11
12
  mistakes. This is true. And they did in my survey,
13
   also. This is common.
14
                  OUESTION:
                            When -- as a result of that --
15
  of those errors, does that -- what does that mean with
16
  regard to the validity of your survey?
17
                  ANSWER: So one of the analysis I did in
18
  response to Dr. Dhar's report is I took out those
19
   respondents who made an obvious error -- a big error in
20
   terms of price, for example, like what you said. They
   said that actually $300 is preferable to $50, for
21
   example, or they said that the current -- the full
22
  battery life is not as good as 20 percent battery life,
23
24
   et cetera. I took out people who were -- were obviously
  reversed, so to speak, their preferences, and recomputed
25
```

```
my market's willingness to pay calculation. And I found
1
2
  that my number was not particularly affected. If
3
  anything, it went up somewhat.
                  OUESTION: Let me see if I understand
4
5
  that. Are you saying that in this compensation that you
  then took out the survey respondents who had made those
6
   sort of errors and -- and then just did your analysis
8
  using the others?
9
                  ANSWER: Using only the remaining people,
10
   yeah, that's what I was trying to say.
                  OUESTION: And what was the result when
11
12
  you did that?
13
                  ANSWER: I don't have the exact number in
  front of me. I can look it up if you are interested.
14
15
  But for $12.43, which is my number -- market willingness
16
   to pay number, it goes up to maybe $12.70 or something
17
   like that. It -- it goes up. It doesn't -- so it
  doesn't change a lot, but, if anything, it goes up.
18
19
                  QUESTION: Did you have a way of testing
20
   as a whole how reliable the answers are that the
  respondents gave?
21
22
                  ANSWER: Yes, yes, I have a way, and I --
2.3
   and I did test it.
24
                  QUESTION: Can you describe that to the
25
   jury?
```

```
1
                  ANSWER: So I computed a correlation, as
2
   it is called, in statistics. And if the correlation is
3
  more than two-thirds, then I called those people as
  higher quality data respondents. And the people who are
4
5
  below two-thirds, I called them not as high -- lower
   quality respondents -- data respondents. And I did the
6
   analysis both ways, as I said. I did the market
8
   willingness to pay using only the higher quality
9
   respondents. I did then another analysis including
10
   everybody, and I found that if I did everybody, the
11
   market's willingness to pay goes up a little bit. So,
12
   again, my results were conservative in that sense.
13
                  QUESTION: I've got a couple of slides
  here, Dr. Srinivasan, and I want to walk through those
14
15
   and have you explain this concept of market's
16
   willingness to pay. So starting with this slide which
   shows a -- a phone without a camera feature. Can you
17
   explain the concept of market's willingness to pay?
18
19
                  ANSWER:
                          So in this particular slide, you
20
   are seeing a phone -- smartphone without a camera, so it
21
   says no camera. And the price of this phone is $200.
22
                  Now, you have added to that previous
2.3
   slide another picture in which the phone has a camera.
24
   So you've added a feature which people generally prefer.
25
                  Now, the question is, how much can I
```

```
increase my price and still keep the same number of
1
2
  units I sold before, because I'm giving something more
  attractive? How much more can I -- how much incremental
3
   I can increase my price and still keep the same number
4
5
   of units? That increase in price is what we mean by the
  market's willingness to pay for the feature -- in this
6
7
   case, camera.
8
                  QUESTION: All right. Let's do it
9
   another way.
                Let's assume we start with a phone that
10
   already has the feature and then the phone -- then the
11
   feature's taken away. Can you describe market's
12
   willingness to pay in that circumstance?
13
                  ANSWER: Right. So before you had the
   camera, now this -- this particular phone does not have
14
15
   the camera. So the people are likely to find the
   smartphone without the camera less attractive. So how
16
17
   much do you have to decrease the price now? As you're
   showing that redline there, orange line, showing how
18
19
  much does the price have to go down and still keep the
20
   same unit sales. So that is also the market's
21
   willingness to pay.
22
                  QUESTION: Is that -- is the market's
2.3
  willingness to pay for the decrease and for the
24
   increase, is it the same or is it different in the
25
  method that you used?
```

```
1
                  ANSWER: It is the same if the change
2
   that you are making is small, and -- which is -- which
3
  is true in my particular case.
4
                  (Videoclip ends.)
5
                  THE COURT: Why don't we use this pause
  to take a recess and then we'll continue with this
6
   deposition testimony when we return.
8
                  Ladies and gentlemen of the jury, I'm
9
   going to excuse you to the jury room for a brief break.
10
   Don't discuss the case among yourselves. You may leave
   your juror notebooks in your chairs, if you'd like, and
11
   we'll continue shortly. You are excused to the jury
12
13
   room at this time.
14
                  COURT SECURITY OFFICER: All rise.
15
                  (Jury out.)
16
                  THE COURT: The Court stands in recess.
17
                  (Recess.)
18
                  (Jury out.)
19
                  COURT SECURITY OFFICER: All rise.
20
                  THE COURT: Be seated, please.
21
                  Are we ready to proceed with the
22
   deposition clips?
2.3
                  MR. DOVEL: Yes, Your Honor.
24
                  THE COURT: All right. Let's bring in
25
   the jury, please.
```

```
1
                  COURT SECURITY OFFICER: Yes, sir.
2
                  THE COURT: Mr. Dovel, is there another
3
   deposition clip after this one, or is this the last one?
                  MR. DOVEL: This is the last one. We
4
5
  have another 30 seconds we will play after Mr. Mills.
                  So next witness will be Mr. Mills.
6
7
                  THE COURT: All right.
8
                  COURT SECURITY OFFICER: All rise for the
9
   jury.
10
                  (Jury in.)
11
                  THE COURT: Be seated, ladies and
   gentlemen.
12
13
                  Plaintiff may continue with your witness
14
  by deposition.
15
                  (Videoclip played.)
16
                  QUESTION: Now, in general, if someone
   gathers survey data showing how much individual
17
   consumers value a feature, would that -- and that's all
18
19
   the data they had, would that be enough data to
20
   accurately estimate the market's willingness to pay for
  that feature?
21
22
                  ANSWER: Okay. So the market willingness
  to pay is a general concept. That is, with the
23
24
  feature -- with the desirable feature put on, how much
25
  is the price to be increased so that the unit sales
```

remains the same, as I pointed out before. If the -- if 1 2 the change that you are making is very substantial -that is, the value -- the total value is being increased 3 by a substantial amount, then this particular method I 5 used is not appropriate. There are -- it's not appropriate. You have to do something else. 6 7 OUESTION: What other information would 8 you need in that circumstance in the general case where 9 you've got these large changes? 10 ANSWER: You have to do what is called the computer simulation. It's called a market 11 12 simulation, it is called. So you need to have lot -- a 13 lot more additional data. I'll give you some examples of that. You need to know what are the different brands 14 15 competing in the marketplace? For each of those brands, what are the models? For each of those models, what are 16 the features? What are the prices? How familiar --17 what is the market's familiarity with each of these 18 19 What is the level of advertising that goes on, 20 both now and in the past? How much distribution is out 21 there? That is, in other words, how available each of these are with the different service providers? So you 22 need a lot of additional information, and then you have 23 24 to build what is called a simulation model. Using that, you can answer the question for any other feature also, 25

```
but if -- if the value change is substantial.
 1
 2
                  QUESTION: All right. If you didn't have
 3
   all that information in this case, how is it that you
   were able to reliably determine the market's willingness
 5
   to pay?
 6
                  ANSWER: I was able to -- I didn't have,
   first of all, all those information, but I did not need
   it in this case because the change I was talking about
9
   is small, and, therefore, I was able to use something
10
   called a formula 14 -- I will get to that in a minute if
11
   you -- if you -- as -- as a way of determining it
12
   without needing all that other information.
13
                  QUESTION: When you refer to formula 14,
   what are you referring to?
14
15
                  ANSWER: There is a research paper by
   Professor Ofek of the Harvard Business School and
16
   myself, I think, titled something like, How Much is the
17
18
   Market Willing to Pay For an Improvement in an
19
   Attribute, I think it is, something like that. And in
   that research publication, there is a formula 14.
20
   There's a 14 formula.
21
22
                  QUESTION: All right. Let me put on the
23
   screen -- you mentioned the -- the name of the
24
   publication. When was that published?
25
                  ANSWER: I believe it is a 2002, I want
```

```
1
   to say.
2
                  QUESTION: Now, on the screen now, we
3
  also have a long -- looks like a scientific or
  mathematical formula. It has the number 14. Do you
4
5
  recognize that?
                  ANSWER: Yes, that was the formula I was
6
7
  referring to as formula 14.
8
                  QUESTION: Now, this looks complicated to
9
       Did you have enough information data that you could
10
  use this formula to calculate the market's willingness
11
   to pay?
12
                  ANSWER: I had enough information to use
  formula 14, yes.
13
14
                  QUESTION: Has this formula been
15
  generally recognized in the market research community as
16
  applicable, as one that's valid?
17
                  ANSWER: Yes.
18
                  QUESTION: Can -- can you provide to the
19
   jury any evidence to show that this approach is accepted
20
   in the mark -- market research community as providing
  valid results?
21
22
                  ANSWER: So there are two things I could
23
  say on those lines. One, in the year 2002, when this
24
  paper was published, each year people in the market
25
  research -- quantitative marketing research community
```

```
look at all the papers that are published that year in
1
2
   either this journal or another leading journal and say
3
  which paper had -- had the greatest value to the
  marketing research community. And this paper won
4
5
  something called the John Little Award for -- for
  getting that -- for being recognized in that way. So
6
   that's one.
8
                  Secondly, this paper has been out for
9
   about 11 years now, 2002. We are now in 2013.
10
   Generally, what happens in the scientific community is
11
   that people read it, they check it, and if they have an
   objection to it and they can say that there is something
12
   not quite right about it, they write a publication on
13
   that basis. I know of no such research which has been
14
  published in this past 11 years potentially refuting
15
   this -- this approach.
16
17
                  QUESTION: Is either the precise formula
18
   14 or a variation of it in common use in the market
19
   research community?
20
                  ANSWER: A variation of it is in use
21
   in -- in the market research community.
22
                  QUESTION: Just starting with each of
  these columns, can you explain to the jury what's
23
24
   depicted here and your results for the market's
25
  willingness to pay for infringing notifications for
```

```
1
  Android phones?
2
                  ANSWER: So the first column say O/S
3
  weights, question mark. So it's asking did we use the
  weights that were in the formula 14. So it says -- it
4
5
  say, no, which means the variation of that formula
  was -- this is the one which you asked me a minute ago,
6
   asking is there a variation of that formula that is used
  in the market research community. The answer is yes.
9
   So that's what the no is about.
10
                  QUESTION: Let me ask you a question
   about that.
11
                When you say the weights, those are all the
  details that are in that formula 14?
12
13
                  ANSWER: That's correct.
14
                  QUESTION: And when it says -- in the
15
   column when it says, no, that means they're using the
16
   simplified version?
17
                  ANSWER: That's right.
18
                  QUESTION: Let's go to the second column.
19
  What does that indicate?
20
                  ANSWER: This says smartphone price
21
   range, it says. Suppose you take the entire price range
   going from $50 to $300. That's what it says.
22
2.3
                  QUESTION: Now, the next column says
24
  MWTP. What does that indicate?
25
                  ANSWER: The MWTP stands for market's
```

```
willingness to pay, in this case, for the infringing
1
2
  notification compared to non-infringing notification,
3
  and it says the answer is $12.23.
4
                  QUESTION: Now, can you explain the next
5
  two columns which are -- which are labeled lower and
6
   upper?
7
                  ANSWER: So it's asking the following
8
  question -- answering the following question: There
9
   were 409 respondents on the basis of whom I have come up
10
   with this answer of 12 -- $12.23. If I had taken a
   different sample of 409 respondents, I would get a
11
   slightly different answer. If I took a third sample of
12
13
   409 respondents, I would get yet another answer. So the
  question is what's the margin of error? Because my
14
   answer is based on this particular sample of 409
15
   respondents. What's the margin of error on my answer?
16
   $12.23. So it says my number can be as low as $8.33 on
17
18
   the lower end, and on the upper end it can be as high as
19
   $16.14. And I'm 95 percent confident -- loosely
20
   speaking, 95 percent confident that the number is
   between this $8.33 and $16.14, but if you press me to
21
22
   answer one -- one number only, then I will say it is
2.3
   $12.23.
24
                  QUESTION: Did Dr. Dhar in his report
25
   criticize your calculation of this margin of error?
```

```
ANSWER: He did not.
1
2
                  QUESTION: Let's now talk about the other
3
  rows that are in this table. Can you explain what those
  represent?
4
5
                           So the final three rows in this
                  ANSWER:
  table -- you notice the first column says, yes, which
6
  means that I used the exact formula 14.
8
                  Now, so all that complicated things. And
9
   not only that, I tested different price ranges, because
10
   $50 to $300 is a big price gap. So I tested between 50
   and hundred in the second row there, hundred and $200,
11
12
   and finally, between $200 and $300. If I tested that
13
   way using the exact formula 14, the numbers change a
   little bit. There's a $12.23, which I reported before.
14
15
   It's either 12.86 or $13.32 or $12.77. So the numbers
   change a little bit, up -- up to, let's say, a dollar or
16
17
   so.
18
                  QUESTION: All right. Now, as a result
19
   of your work, what did you come up with as your final
20
   opinion that you would recommend as the market
21
   willingness to pay in this case?
22
                  ANSWER: I would say that the smartphone
23
  market is willing to pay $12.23 for receiving
24
  notifications using the Google Android infringing
25
   technology compared to the non-infringing technology.
```

```
1
                  QUESTION: Now, Dr. Dhar, he criticized
2
  your results by saying, well, if I take this -- this
  market willingness to pay formula and if I try to apply
3
   it to other features that you surveyed, we come up with
4
5
  what he says are large amounts. Like he points to at
  the bottom of this Table 1 I've got on the screen that,
6
   as he calculated it, the difference in price for an 8
  megapixel versus a 2 megapixel camera would be $195.
9
   And he says that number is so big so it doesn't make
10
          Now, what is your response to Dr. Dhar's
   criticism?
11
12
                  ANSWER: Dr. Dhar is doing market's
13
   willingness to pay calculations for some changes using
  my formula 14 when, in fact, he should not be using
14
15
   formula 14 in those cases.
16
                  QUESTION: Why not?
17
                  ANSWER: Because I mentioned before that
18
   formula 14 applies only to very small -- small changes,
19
   and he has applied to large changes. As a matter of
20
   fact, if I compare -- if I look at all of the numbers,
21
   not just 8 megapixel versus 2 megapixel, but all of them
22
   in this table, Table 1, the errors are about more than
2.3
   65 times compared to what I had done. So this is just
24
   so much outside the range of calculations, that he
25
   should not be using this formula. If he really wanted
```

```
1
  to answer these questions, he should really do the more
2
   elaborate simulation I talked about before.
3
                  QUESTION: In your opinion, is it
   appropriate to use formula 14 to measure market's
4
5
  willingness to pay for the changes that he's trying to
  do -- trying to do in this table?
6
7
                  ANSWER: No. He should not have.
8
                  QUESTION: I'm going to ask you about the
9
   -- the other part of your analysis, and can you explain
10
  to the jury what's on this screen now?
11
                  ANSWER: So I also asked the following
12
   question: The market's willingness to pay was $12.23.
13
   So suppose Google Android phones charge $12.23 as an
            You can have this better technology as an
14
15
   option. Are you willing to buy it? I looked at only
16
  the Android users in this case, and I found that 42
   percent of them approximately would purchase that
17
18
   option.
19
                  QUESTION: Would purchase the option at
20
  what price?
21
                  ANSWER: At the $12.23 price.
22
                  QUESTION: $12.23?
                  ANSWER: Cents, correct. And there is a
2.3
24
  range. Of course, again, confidence -- 93 percent, I am
25
  confident, that the number is somewhere between 35 and
```

```
1
   49 percent.
2
                  QUESTION: Did you in your report reach a
   conclusion as to the average number of applications with
3
   automatic notifications that would be found on
4
5
   smartphones?
6
                  ANSWER: Yes, I did.
7
                  QUESTION: What did you find for -- the
8
   all smartphone users in -- in total?
9
                  ANSWER: So I found that if I use all
10
   smart -- all smartphone users, that on average, they
  have like 4.9, approximately 5, number of applications
11
  with automatic -- with notification applications.
12
13
                  QUESTION: Now, the next column refers to
  Android operating system. What did you find for users
14
15
   of the Android operating system?
16
                  ANSWER: If I use only the Android --
17
   only the respondents whose smartphones use the Android
   operating system -- that is a Google Android operating
18
19
   system -- then the average number of notification app --
20
   apps is 4.3.
21
                  OUESTION: What about for users of
  Microsoft Windows operating system? What did you
22
  discover about their use of notification applications?
2.3
24
                  ANSWER: In that case, the average number
25
   of notifications was 2.1.
```

```
1
                  QUESTION: Was that less or greater than
2
   the number for Google Android users?
                  ANSWER: Android users have almost double
3
   the number of automatic notifications compared to
4
5
  Microsoft Windows smartphone users.
                  QUESTION: Let's go to the final slide,
6
7
   which is a table that compares results for Google
  Android and Microsoft Windows. Can you describe that --
9
   your results there to the jury?
                           I calculated this market
10
                  ANSWER:
   willingness to pay, which I have talked about before,
11
12
   for both those -- for people using the Android operating
   system phones and separately for those -- excuse me, I
13
   should back up.
14
15
                  So I calculated my market willingness to
16
        Dr. Knox, the technical expert, had given me what
17
   is the battery loss -- battery life loss if you used a
   representative Android phone, and he had given me a
18
19
   different table -- a different mathematical formula if
20
   you use a representative Microsoft Windows operating
21
   system phone. If you use the battery loss for the
22
   Android -- typical of the representative Android
   smartphone, the answer is $12.23, which is the number
2.3
24
   that I gave you before. Had I done the same analysis
25
   using Dr. Knox's information for the Microsoft Windows
```

```
representative phone, the number would have been only
1
2
   $11.42, a little bit less, about 80 cents less.
             And the second question, which is if this
3
   infringing technology were offered at the market's
4
5
   willingness to pay price, what percentage of those
   respective users would purchase that option? So 42
6
   percent of Android smartphone users -- Google Android
8
   smartphone users would purchase the option, whereas only
9
   20 -- I'm rounding it a little bit here, about 29
10
   percent of the Microsoft Windows smartphone users would
11
   purchase the option.
12
                  (Videoclip ends.)
13
                  MR. DOVEL: Your Honor, for the record,
   the exhibit that Dr. Srinivasan was using was
14
   Plaintiff's Exhibit 85. And with that, we'll pass the
15
16
   witness.
17
                  THE COURT: All right. Do we have
18
   counter designation clip to play on behalf of the
19
   Defendant?
20
                  MR. STOCKWELL: That's right, Your Honor.
21
                  THE COURT: Proceed with your portion of
22
   the deposition.
2.3
                  (Videoclip played.)
24
                  QUESTION: Dr. Srinivasan, we can agree
25
   that market willingness to pay is not the same thing as
```

```
the optimal price that a company can charge for a
1
2
  product feature; that's true?
3
                  ANSWER: That's correct.
                  QUESTION: Market willingness to pay is a
 4
5
  formula, your formula 14 that you talked about, which is
  based on the theoretical assumption that competitors do
6
  not react to the attribute and price changes made by the
8
  firm offering the attribute; isn't that right?
9
                  ANSWER: One more time, your question.
10
                  QUESTION: Sure. Market willingness to
   pay, that formula 14 we talked about, is based on a
11
12
   theoretical assumption that competitors do not react to
13
   the attribute and price changes made by the firm
   offering the attribute, right?
14
15
                  ANSWER: That's correct.
16
                  QUESTION: But in many cases, it's more
17
   realistic to assume that competitors will, in fact,
   react by adjusting their own prices, true?
18
19
                  ANSWER:
                          In some cases, they may.
20
   some cases, may not.
21
                  QUESTION: Well, in fact, you said in
   your paper it's more realistic to assume the customers
22
23
   will react by adjusting their prices. Isn't that what
  you wrote in your paper?
2.4
25
                  ANSWER: That paper in general -- in a
```

```
1
   general case, that's what it says, yes.
 2
                  QUESTION: Let me show you what's been
 3
  marked as DX 367, 001. Do you recognize a copy of that?
                  ANSWER: Indeed.
 4
 5
                  QUESTION: If you'll turn to Page 407, I
   think it is.
 6
 7
                  ANSWER: Yes.
 8
                  QUESTION: And it says in the first full
9
   sentence in the second column, in many cases, it is more
10
   realistic to assume that competitors will, in fact,
   react by adjusting their own prices. Did I read that
11
   correctly?
12
13
                  ANSWER: You're on -- you're on the
14
  second column?
15
                  QUESTION: Yes.
16
                  ANSWER: In many cases. I see it now.
   One second.
17
18
                  QUESTION: So did I read that correctly?
19
                  ANSWER: Yes. In many cases, yes.
20
                  QUESTION: And, in fact, you've modelled
21
   the price reaction of competitors in your paper, didn't
22
   you?
2.3
                  ANSWER: I did.
24
                  QUESTION: And you see -- see those
25
  results in Table 3 on the first column of Page 407,
```

```
1
   correct?
2
                  ANSWER: That's correct.
3
                  QUESTION: In your study, you did not
   consider the reactions of competitors to Google if
4
5
   Google were to attempt to impose a fee that would result
   in consumers paying an additional $12.23 per smartphone,
6
7
   did you?
8
                  ANSWER:
                           I did not for a reason.
9
                  QUESTION: In considering a proper
   conjoint study, can we agree that one of the primary
10
   considerations is to include those features that
11
   customers consider important in choosing alternative
12
13
   smartphones?
14
                  ANSWER: I used the word relevant, but
15
   important, similar, yeah, uh-huh.
16
                  QUESTION: Because you want to determine
17
   the important drivers of customer choice in the product
18
   category, right?
19
                  ANSWER:
                          Not in this case. In general,
20
   in conjoint analysis, yes. Not in this particular case.
21
                  QUESTION: And we can agree that if you
22
   leave out important features, that makes your study less
   reliable; isn't that true?
23
24
                  ANSWER: I don't -- I don't agree with
25
   that.
```

```
1
                  QUESTION: So, Dr. Srinivasan, if you'll
2
   take a look at Page 131 of your deposition. I asked you
3
   at that time, if you leave out features --
4
                  MR. DOVEL: Your Honor, objection.
5
                  QUESTION: -- to 124, that consumers --
6
                  (Videoclip stopped.)
7
                  MR. DOVEL: Can we stop the video?
8
                  THE COURT: Let's stop the video.
9
                  MR. DOVEL: May we approach?
                  THE COURT: Counsel, approach the bench.
10
11
                  (Bench conference.)
12
                  MR. DOVEL: I thought the Court granted
13
   our objection to this one.
14
                  MR. STOCKWELL: You did. And we took
15
              What counsel failed to recognize right
   underneath that we'd actually read the whole question
16
17
   and response and I believe that's what this is.
18
                  MR. DOVEL: No, no. It's just the two --
19
   the two sentences are the same thing.
20
                  MR. STOCKWELL: Can I -- can I go grab my
21
   paper?
22
                  THE COURT: Let me get mine. Go get
23
  yours.
24
                  Let's -- let's speak to the microphone,
25
  and tell me what the problem is.
```

```
1
                  MR. STOCKWELL: So I had you as having
   stricken, Your Honor, were Clips 6 which was page 77, 7
 2
  which was page 78, 8 which was page 78, and then there
 3
   was a -- we also struck this little part right here just
   because that was leading in with a deposition question.
 5
                  Those were -- those were your rulings.
 6
 7
                  THE COURT: What's your objection, Mr.
 8
   Dovel?
9
                  MR. STOCKWELL: This is a different clip.
10
                  MR. DOVEL: We can take a look at this
11
   clip.
12
                  MR. STOCKWELL: Make sure.
                  THE COURT: Well, I asked everybody at
13
   the bench if they understood it just so we wouldn't be
14
15
   in this situation.
16
                  MR. DOVEL: Okay. This is playing Clip 9
17
   now?
18
                  MR. STOCKWELL: Yeah, this should be on
19
   Clip 9. That's what Jason said.
20
                  MR. DOVEL: I don't think it is. Let's
21
   go double-check. I think that might be a mistake. If
   it's Clip 9, he's right.
22
2.3
                  THE COURT: All right. Why don't you
24
   check with your technical person and come back up here
25
  and tell me.
```

```
MR. DOVEL: Yeah.
 1
 2
                  (Bench conference concluded.)
 3
                  THE COURT: I apologize for the
   interruption, ladies and gentlemen, just bear with us.
 4
 5
                  (Bench conference.)
                  MR. DOVEL: My apologies, he's right.
 6
 7
                  THE COURT: Well, apology is accepted,
 8
   but I specifically asked both sides to make sure -- I
 9
   think it's detrimental to the Defendant to have this
10
   interruption, and I'm going to detract 15 minutes from
   the Plaintiff's trial time.
11
12
                  MR. DOVEL: I understand, Your Honor.
13
                  THE COURT: All right. Let's proceed.
14
                  (Bench conference concluded.)
15
                  THE COURT: All right. Let's proceed
   with the deposition clip.
16
17
                  (Videoclip played.)
18
                  QUESTION: Does that make the survey
19
   unreliable?
20
                  You answered: It may not if the
21
   attributes that are important, which you have left out,
22
   are picked up in some other way by the attributes you've
   imported.
23
24
                  And then I asked: And if they are not
25
   picked up, then it would be unreliable?
```

```
1
                  And you answered: Yes. If you left out
   important attributes which are somehow not picked up by
2
  the attributes that you've included in the study, then
3
  it is increasingly unreliable. Wasn't that your
4
5
  testimony at the time?
                  ANSWER: Just the next line I say
6
7
   something more. You are reading it out of context.
8
                  QUESTION: Sir, you can -- your counsel
9
   can ask questions later.
10
                  ANSWER: Okay. Sorry.
                  QUESTION: But isn't that what you
11
  testified?
12
13
                  ANSWER: Yes, up to that point.
                                                   If you
   just stop at that line, what you said is right, but just
14
15
   in the next answer, I say something more.
16
                  QUESTION: I'm going to read the rest of
17
  this section.
18
                  ANSWER: Okay. Please.
19
                  QUESTION: And what happens if you leave
20
   out features that are important that are not picked up
   by other features? Will that inflate the value of the
21
   feature of interest?
22
2.3
                  You answered: Not with respect to the
24
  market's willingness to pay because it's a ratio of two
25
   things. So if they're both inflated, it will not affect
```

```
1
   the results.
                  QUESTION: So it just makes the outcome
2
3
  unreliable, but it doesn't inflate the feature and
  interest relative to the other features?
4
5
                  And I asked you again: So it does not
  inflate the feature of interest you are saying relative
6
  to the features that are in the study? It just makes
  the study increasingly more unreliable than if you would
8
9
  have included the important features. Is that a fair
10
   statement?
11
                  And you answered: It makes it less
12
  reliable if you left out important attributes.
13
                  ANSWER: Sir, you left out one sentence
   in between when you were reading. The witness, it says
14
15
   it doesn't one more time, last part of what you said.
   That is -- you know, I'm just repeating. It does not
16
17
   affect with respect to the rate with respect to market
   and willingness to pay. You just left out that one
18
19
   sentence.
20
                  QUESTION: But you concluded with when
   you include that sentence, the last thing you said is it
21
  makes it less reliable if you left out important
22
2.3
  attributes.
24
                  ANSWER: I said that, but you have to
25
  read the whole paragraph.
```

```
1
                  QUESTION: It's -- are you familiar -- I
2
   think we were talking about the term aesthetics; is that
3
  right?
                  ANSWER: Yes.
4
5
                  QUESTION: How would you define that
6
   term?
7
                  ANSWER: Actually, a professor at my
8
   school told me a good way of thinking about aesthetics
9
   is to think of the opposite, which is anesthetic.
10
  Anesthetic means you don't feel anything. So aesthetics
   is a matter of feeling about something. So it has to do
11
   with visual appeal. It has to do with touch and feel.
12
13
   All of those things are aesthetic, particularly the user
  usability of something, appearance of something. All of
14
15
   those are considered aesthetics.
                  QUESTION: And it's true, isn't it, that
16
17
   aesthetics is an important consideration when consumers
18
   purchase a smartphone?
19
                  ANSWER:
                          It -- it could certainly be for
20
   some people, yes.
21
                  QUESTION: And most experts would agree
   that conjoint studies do not do well at measuring
22
   aesthetics; isn't that true?
23
                  ANSWER: It does not if it -- if it
24
25
   includes a brand, for example, as an attribute, then
```

```
this is not a problem. If -- if it just -- if there's
1
2
  no brand and you leave out aesthetic, then it is a
3
  problem.
4
                  QUESTION: So you in your study did not
5
  attempt to define the term aesthetics in terms of visual
  appeal, touch or feel, and measure that value in your
6
   study, did you?
8
                  ANSWER: I did not.
9
                  QUESTION: And you say that you can in --
10
  that you can -- you said that you are able to measure
   that through the concept of brand; is that your
11
  testimony?
12
13
                  ANSWER: Not through the concept of
  brand, but because I have included brand as one of my
14
15
   features -- people, for instance, know that Apple is --
  many people think that Apple's products are
16
   aesthetically more appealing compared to some other
17
18
  products. Other people may feel differently. So brand
19
   was included as a feature in my study.
20
                  QUESTION: But you linked the definition
21
   of brand with operating system, didn't you?
22
                  ANSWER: I do.
2.3
                  QUESTION: And operating system has
24
  nothing to do with aesthetics, does it?
25
                  ANSWER: It does not.
```

```
1
                  QUESTION: So the very best you were able
2
  to do was only indirectly capture aesthetics through
3
  your term operating system brand; is that right?
                  ANSWER: I was able to capture it only
4
5
  indirectly, yes.
6
                  QUESTION: And in deciding what features
  were important to consumers, you based that on the -- I
  think you said this morning the 2011 Consumer Report
9
   Guide.
10
                  ANSWER: 2011 Annual Buying Guide, I
   think it was called. Consumer Reports Annual Buying
11
  Guide 2011, yes.
12
13
                  QUESTION: Okay. Thank you. Annual
  Buying Guide.
14
15
                  ANSWER: Yeah.
16
                  QUESTION: And that Annual Buying Guide
17
  mentions a number of usability features that you did not
18
   directly measure; isn't that true?
19
                  ANSWER: There are some features they
20
  mention -- usability features, as you call, which I did
  not include, yes.
21
22
                  QUESTION: And that would include
23
  navigation?
24
                  ANSWER: That's a usability feature, yes.
25
                  QUESTION: Voice quality?
```

```
1
                  ANSWER: Yes.
2
                  QUESTION: Phoning? Phoning?
3
                  ANSWER: Phoning?
                  OUESTION: Phoning.
 4
5
                  ANSWER: What does that mean?
6
                  QUESTION: Let me show you an exhibit.
7
                  ANSWER: So they are saying how good is
8
  it as a phone? Is that what you mean? Or in the test
9
  results? Is that what you mean?
10
                  QUESTION: This would be -- by the way,
  for the record, DX 362 is our exhibit number. And we're
11
12
  looking at --
13
                  ANSWER: Yes, I see the column called
  phoning. So they are looking at how this works as a
14
15
  telephone, yes, uh-huh.
16
                  QUESTION: You didn't cover that one
17
   either, did you?
18
                  ANSWER: Because all these smartphones
19
   include -- telephone is a central part of all
   smartphones, so it is included in that sense.
20
21
                  OUESTION: But not all have the same
22
   phoning quality, do they?
2.3
                  ANSWER: They do not. And so brand,
24
   again, captures it indirectly.
25
                  QUESTION: So messaging is another
```

```
usability feature you did not directly measure; isn't
1
  that right?
2
3
                  ANSWER: Yes, again, indirectly captured
  by brand, but not directly.
4
5
                  QUESTION: And you didn't directly
  capture web browsing either, did you?
6
7
                  ANSWER: I did not directly capture it,
8
  yes, correct.
9
                  QUESTION: And you did not directly
10
   capture multimedia?
                  ANSWER: These are all indirectly only
11
12
   captured, yes.
13
                  QUESTION: So just -- I need you to
  answer the question, yes or no.
14
15
                  ANSWER: Okay. Okay.
16
                  QUESTION: Okay. So the answer is no,
  you didn't directly capture it?
17
18
                  ANSWER: That's correct.
19
                  QUESTION: If you would have directly
20
   included them in the study, then we can agree your
21
   conjoint survey method would not have worked to
22
   determine the willingness of the consumer to pay; isn't
2.3
  that true?
24
                  ANSWER: I don't agree with that at all.
25
                  QUESTION: Okay. Can you look at Page
```

```
174 of your deposition?
 1
                  ANSWER: 174?
 2
                  QUESTION: Yes, sir. And it would be --
 3
                  ANSWER: Yes, I see it. What line?
 4
 5
                  QUESTION: I'm looking here, sir. Lines
 6
   18 through 24, sir.
 7
                  ANSWER: Can I read this page?
                  QUESTION: Yeah, I'll read it to you,
 8
9
   sir.
10
                  ANSWER: Please.
11
                  QUESTION: On Line 18, question: Would
   it be fair to say that if you tried to include these
12
13
   subattributes that a conjoint method would not work to
   determine the willingness of the consumer to pay?
14
15
                  Answer: It would make it more errorful.
   That's what you answered at the time, correct?
16
17
                  ANSWER: Could I read this page, if you
18
   don't mind? I have to just listen only to that
19
   question?
20
                  QUESTION: I just need you to answer yes
21
   or no. You testified --
22
                  ANSWER: Yes --
2.3
                  QUESTION: -- it would make your survey
24
  more errorful. That was your testimony?
25
                  ANSWER:
                            That's correct. That's what I
```

```
said there.
1
2
                  QUESTION: Okay. So we can certainly
3
  agree that these features in the consumer's buyer's
   quide -- the Annual Buying Guide are important to
4
5
  consumers, right?
6
                  ANSWER:
                          They are -- they are
7
   considerations of some degree of importance, yes.
8
                  QUESTION: In your conjoint study, Dr.
9
   Srinivasan, it was your objective to determine the value
10
   a prospective smartphone buyer would attach to certain
   features of the smartphone; isn't that right?
11
12
                  ANSWER: No.
13
                  QUESTION: Your objective in doing
   this -- the -- the survey part of the study was to
14
15
   determine the value --
16
                  ANSWER: Of only one thing. Not
17
   feature -- you said feature in general. No, it was not.
18
                  QUESTION: But of the features you've
19
   looked at?
20
                  ANSWER: I looked at only one thing. If
21
   you -- not all features, no, definitely not.
22
                  QUESTION: So did you try to determine
   the importance and desirability of different levels of
23
   the 16 features?
24
25
                  ANSWER: I measured them, yes.
```

```
1
                  QUESTION: Okay. And you didn't survey
2
  how many of the people actually were aware of the
  notification feature before they purchased their phone,
3
  did you?
4
5
                  ANSWER: I did not ask that.
6
                  QUESTION: And you did not calculate or
7
  report the total number of Android users that actually
8
  use Google messaging service, did you?
9
                  ANSWER: I did not ask the question with
10
  respect to Google messaging. What I did ask --
11
                  QUESTION: Okay. I need you --
12
                  ANSWER: Sorry, sorry, sorry.
13
                  QUESTION: -- to just answer yes or no.
14
                  ANSWER: Sorry. I did not -- as you put
15
  it.
16
                  QUESTION: Okay.
17
                  ANSWER: Google -- I did not include
18
   Google messaging service as a question in my survey,
19
   yes.
20
                  QUESTION: Your conjoint survey method
21
   assumes it's okay to ask consumers to rate the
22
   desirability and importance of different levels of
23
  features even if they have no prior awareness of it;
24
   isn't that true?
25
                  ANSWER: Yes.
```

```
1
                  QUESTION: But in the real world, if a
2
   smartphone buyer is unaware of a feature when he or she
3
   decides to purchase a phone, then necessarily the
   feature would have no value to that buyer in their
4
5
   decision to buy; isn't that true?
6
                  ANSWER: No.
7
                  QUESTION: Sir, there's no way to
8
   consider a feature in purchasing a phone if you have no
9
   knowledge of that feature, is it?
10
                  ANSWER: No, there is a way.
                  QUESTION: There is no -- so you're
11
12
   saying if you're unaware -- if a buyer is unaware of a
13
   feature on a phone, that that buyer is considering that
   feature when they're getting ready to purchase it; is
14
15
   that your testimony?
16
                  ANSWER: It comes through other people
17
   from whom they hear about the phones. It doesn't come
18
   directly from them, but they hear other people telling
19
   that, look, when you use this phone, you will need to
20
   get notifications. And so it comes in an indirect way,
21
   not direct way, yes.
22
                  QUESTION: You have no evidence that
   anybody in your survey had heard of a recommendation
2.3
24
   from another person about the notification feature, do
25
   you?
```

```
1
                  ANSWER: In the survey itself, I did not
2
   ask that question.
3
                  QUESTION: And you have no evidence that
   anybody actually heard about someone else's
4
5
   recommendation?
                  ANSWER: In the survey, I did not.
6
7
                  QUESTION: It's well known in the survey
8
   literature that if you tell someone a feature is
9
   important, that the respondents may inflate the value
10
   they ascribe to the feature; isn't that true?
11
                  ANSWER: In a -- in a general survey,
12
   yes.
13
                  QUESTION: And in your general
   instructions, you told respondents that all the features
14
15
   in the study are important features, didn't you?
16
                  ANSWER: I can read the exact sentence,
   but something to that effect.
17
18
                  QUESTION: And you told them that
19
   research has shown that it's important?
20
                  ANSWER: Yes.
21
                  QUESTION: And you have no -- you
   actually have no research that showed the features are
22
23
   important, did you?
24
                  ANSWER: For many of them, I did.
25
                  QUESTION: But not for the notification
```

```
1
   feature, did you?
                  ANSWER: Except in an indirect way.
 2
                  QUESTION: You had no direct research
 3
   that these -- this was an important feature, did you?
 4
 5
                  ANSWER: I did not have any direct
 6
   information, yes.
 7
                  QUESTION: In your survey, you provided
 8
   respondents -- let me just go ahead and hand you -- this
9
   is DX 459.
              DX 459.
10
                  In your survey, you provided the
   respondents with a more detailed explanation about the
11
12
   notification feature than any other feature in your
13
   instructions, didn't you?
14
                  ANSWER: That's correct.
15
                  QUESTION: And you also italicized
   certain words, did you not, in your definition?
16
17
                  ANSWER: Yes.
18
                  QUESTION: And you didn't use italics on
19
   any other instructions, did you?
20
                  ANSWER: I have to look at the rest of
21
   them, but I can, if you wish.
22
                  QUESTION: You may. Take a look at
   exhibit -- at your report if you'd like, Exhibit 6A to
23
24
   your report, which was one of the exhibits to your
25
   deposition. I believe it was Exhibit 6A.
```

```
1
                  ANSWER: Yeah, that's the only at
 2
   attribute in which there is an italics.
 3
                  QUESTION: In your study you claim -- I
  think you said earlier this morning that you did a step
 4
 5
  to validate the quality of the respondents' answers; is
   that right?
 6
 7
                  ANSWER: That's right.
 8
                  QUESTION: And you took a survey of I
9
   think you said 623 people that -- an -- with Android
10
   phones?
11
                  ANSWER: No, no, I didn't say that.
12
                  QUESTION: I'm sorry. 623 total
   respondents.
13
14
                  ANSWER: That's correct, yeah.
15
                  QUESTION: And of those, you considered
   409 to have provided what you called higher quality
16
17
   data?
18
                  ANSWER: That is correct.
19
                  QUESTION: That's about 66 percent?
20
                  ANSWER: It sounds approximately right.
21
                  QUESTION: So I think you said you are a
   professor, correct?
22
2.3
                  ANSWER: Yes.
24
                  QUESTION: And in your class, if you
25
   graded your class on a 10-point scale, what letter grade
```

```
would 66 percent correspond to?
1
2
                  ANSWER: This is higher -- this --
3
                  QUESTION: I just need an answer. 66
  percent is what in your class if you gave them a letter
4
5
  grade.
6
                  ANSWER: You are com -- comparing apples
   and oranges, so I wouldn't give a grade on that basis is
8
  the answer to your question.
9
                  QUESTION: Okay. So in most 10-point
10
   scales, isn't it true that 66 percent -- if I scored 66
  percent in your statistics class, that's a D plus?
11
12
                  ANSWER: D plus?
13
                  QUESTION: D plus.
                  ANSWER: No, I don't think so. Maybe in
14
15
  graduate programs we give better grades.
16
                  QUESTION: I think you testified earlier
   that -- that your formula 14 will yield unreliable
17
  results if you try to measure the market's willingness
18
   to pay for large improvement level changes in a feature;
20
   is that right?
21
                  ANSWER: That is correct.
22
                  QUESTION: So do you say it only works to
23
  measure small improvements and features?
24
                  ANSWER: So I have to be careful in the
25
  wording when you say small. It is the effect of that
```

```
change on overall value. So it is not the change
1
2
            It is the effect of that change in feature on
  the overall value of the product. If that change is
3
   small, then the formula can be used, whereas if that
4
5
   change is large, then this formula should not be used.
                  QUESTION: And I believe you said you
6
7
   would be comfortable that your formula works well when
8
  the impact of the improvement in comparison to the
9
   overall change is on the order of 2 to 3 percent; is
10
   that right?
11
                  ANSWER: No, I did not say that.
12
                  QUESTION: Let's go to 237, and we'll get
   the whole thing. Line 17 to --
13
14
                  ANSWER: Okay.
                  QUESTION: -- to 238, Line 16. If you
15
16
   were to do it, would you use the same denominator that
   you used to calculate the market's willingness to pay
17
   for the notification feature? And then going on -- the
18
19
   -- the aggregate value of the dollar.
20
                  We had an objection in the middle.
21
   you were to do it, would you use the same denominator
   that you used to calculate the market's willingness to
22
2.3
  pay for a notification feature the aggregate value of
   the dollar? Do you see that question?
24
25
                  ANSWER: Yes, I do.
```

```
1
                  QUESTION: And you answered: So this is
2
   the market's willingness to pay my calculation.
3
  are multiple calculations. And you continue: And, yes,
  that's what I would use, but I'm trying to be -- trying
5
  to say earlier that the Ofek/Srinivasan formula may not
  be quite applicable in this case because the change is
6
   pretty substantial, now 10 percent. So you have to keep
8
   that in mind. It's a theoretical result. And the
   theoretical result is applicable for small changes.
9
10
   for example, a feature that has like a 2 to 3 percent
   importance, I would be comfortable -- I would be more
11
   comfortable than using attribute which is like a
12
13
   10 percent importance. Did I read that correctly?
14
                  ANSWER: Yeah, the word more comfortable
15
   is important.
16
                  QUESTION: Right.
17
                  ANSWER: Yeah.
18
                  QUESTION: But you did say you would be
19
  more comfortable with --
20
                  ANSWER: Compared to the -- the
   10 percent, yes, uh-huh.
21
22
                  QUESTION: You have a slide that talked
2.3
   about market willingness to pay for a phone with a
24
   feature and a phone without a feature, right?
25
                  ANSWER: Yes.
```

```
1
                  QUESTION: And that was -- the feature in
   question was one with -- one that has a camera and one
 2
 3
  that does not have a camera; is that correct?
 4
                  ANSWER: That's right, yeah.
 5
                  QUESTION: Now, in your study, you looked
  at the market willingness to pay for a phone that had
 6
   a -- that had a camera and that did not have a camera;
   isn't that correct?
9
                  ANSWER: In my -- you mean in my study?
10
                  QUESTION: Yes.
11
                  ANSWER: Camera was one of the
12
   attributes, I believe, yes.
13
                  QUESTION: And the value that you
   attached to that was 4.8 percent?
14
15
                  ANSWER: I have to look it up.
16
                  QUESTION: Sure.
17
                  ANSWER: May I just go back to my report
18
   or --
19
                  QUESTION: Yeah, absolutely.
20
                  ANSWER: Okay.
21
                  OUESTION: I think it was exhibit --
22
                  ANSWER: A-8 maybe. You are talking
2.3
   about a video camera?
24
                  QUESTION: Yes.
25
                  ANSWER: Yes.
```

```
1
                  QUESTION: And what was the value you
2
  assigned to that? Well, actually, it didn't -- it was a
3
  -- which camera is it you're using in your illustration
  here?
4
5
                          That was just a general example.
                  ANSWER:
  It was not particularly relating to the numbers in my
6
7
   study.
8
                  QUESTION: So this is -- this doesn't --
9
   this demonstration you did for the jury does not relate
10
   to your study?
11
                  ANSWER: I think we are mixing up two
12
   things, and it is very important I separate these out.
   One, the market willingness to pay is a general concept.
13
14
                  QUESTION: But I'd like you to look in
15
   Table A-1 of your report, and you mentioned that you did
16
   study a built-in video camera?
17
                  ANSWER: What table are you looking at?
18
                  QUESTION: A-1.
19
                  ANSWER: Yes, and what -- built-in video
20
   camera, I see it, yeah.
21
                  QUESTION: And so you're saying that
   that -- that that received an attribute importance score
22
23
   of 4.8 percent, right?
24
                  ANSWER: That's correct.
25
                  QUESTION: Which is something -- so the
```

```
slide that you've shown here to the jury is not
1
2
   something you'd be comfortable using to measure the
  value of the built-in video camera, is it?
3
                  ANSWER: I didn't say that.
4
5
                  QUESTION: Yeah, but you're not -- you
  used this slide as an illustration, but it doesn't
6
  relate to your study, does it?
8
                  ANSWER: Sir, I need to separate out the
9
   idea of market willingness to pay, for which this
10
   illustration is perfectly fine. But this illustration
   is not perfectly fine with respect to formula 14. Do I
11
12
   say -- I don't say formula 14 here anywhere.
13
                  QUESTION: Okay. So we're in agreement
  that this slide is not perfectly fine for formula 14?
14
15
                  ANSWER: That's correct.
16
                  QUESTION: In your survey in February
   2011 -- sorry -- in February 2012, you -- you conducted
17
   your survey in this case in February 2012, I believe you
18
19
   said; is that right?
20
                  ANSWER: That is correct.
21
                  QUESTION: And that survey was before
   SimpleAir brought this lawsuit against Google; isn't
22
   that right?
23
24
                  ANSWER: I don't know the exact date when
25
   the case was brought, but that -- you -- you -- you know
```

```
the answer. I don't know the answer.
1
2
                  QUESTION: Your survey was conducted for
3
   the purpose of being used against Apple and RIM in a
   separate lawsuit; isn't that right?
4
5
                  ANSWER: That is correct.
6
                  QUESTION: And Apple and RIM make and
7
   sell smartphones, true?
8
                  ANSWER:
                           They do.
9
                  QUESTION: And they can increase or
10
   decrease the prices they charge for those smartphones,
   right?
11
12
                  ANSWER: Yes.
13
                  QUESTION: The price range for the
   smartphones you studied ranged from like $50 up to $300,
14
15
   right?
16
                  ANSWER: That's correct.
17
                  QUESTION: Now, you understand in this
18
   case that Google does not sell smartphones that you
19
   surveyed?
20
                  ANSWER: I want to be clear in your
21
   question. Can you please restate it?
22
                  QUESTION: You understand that Google
   does not sell the smartphones that you surveyed in this
23
24
   case?
25
                  ANSWER: Yeah, Google itself does not
```

```
1
   sell.
          It is -- its operating system is in -- is in
2
   companies like Samsung telephones where it is sold, not
3
  Google itself.
4
                  QUESTION: So the smartphones are sold by
5
  third parties such as HTC, Samsung, and LG. We're in
6
   agreement.
7
                           That's right.
                  ANSWER:
8
                  QUESTION: And Google offers only the
9
   operating system that those third parties install in
10
  their devices, right?
                  ANSWER: I assume so.
11
12
                  QUESTION: You're aware that Google does
  not charge for Android software?
13
14
                  ANSWER: That's my understanding.
15
                  QUESTION: And you don't know in this
   case whether the patent at issue discusses battery life
16
   as a benefit of the alleged invention, do you?
17
18
                  ANSWER: I did not study the patent
19
   itself, so I cannot answer your question.
20
                  QUESTION: With regard to the survey that
21
   you conducted, you don't know how Mr. Mills is using
   your survey, do you?
22
2.3
                  ANSWER: Can you please restate the last
24
  part of what you said?
25
                  QUESTION: Yeah. You do not know how Mr.
```

```
Mills, the Plaintiff's damages expert, is using your
1
2
   survey in this case, do you?
3
                  ANSWER: I don't know.
                  (Videoclip ends.)
 4
5
                  MR. DOVEL: Your Honor, we now have some
   redirect.
6
7
                  THE COURT: All right. Proceed.
8
                  (Videoclip played.)
9
                  QUESTION: Dr. Srinivasan, you were asked
10
   about the slide that explains market willingness to pay,
   and you said that your formula 14 that -- said something
11
12
   about how it applies to formula 14. Does your formula
13
   14 -- is it used to calculate a market's willingness to
  pay that is consistent with what is in those slides that
14
15
   describe market willingness to pay?
16
                  ANSWER: So may I answer the question
17
   with a little elaboration?
18
                  QUESTION: Sure.
19
                  ANSWER: There is the general concept of
  market willingness to pay, and I defined it in my answer
20
21
   to your question earlier this morning. And that
   illustration is perfectly consistent with that. But how
22
  you actually do the calculation matters. If it is a
2.3
24
   large change, then you have to do it in a different way
25
   as I explained to you this morning, such as the
```

```
so-called simulation and all that I talked about.
1
  the change is small, then you can use formula 14. But
2
  that slide is perfectly okay because it is perfectly
3
  describing what is market willingness to pay.
4
5
                  QUESTION: My question, sir, is, is
  formula 14, when it's used appropriately, will it give
6
  you an answer that is the market's willingness to pay
8
  that's described in those slides?
9
                  ANSWER: It would if the feature of
10
   interest has a small effect on overall preference.
                  QUESTION: Did you -- do you have a --
11
12
   what percentage effect does the feature that you
  measured have on overall preference?
13
14
                  ANSWER: It is 0.3 percent, I think,
15
   approximately.
16
                  QUESTION: Is that small enough that you
   can use formula 14 to get a reliable answer?
17
18
                  ANSWER: I believe so.
19
                  QUESTION: When you say 0.3 percent, so
20
   that's less than 1 percent?
                  ANSWER: Yes, it is three-tenths of 1
21
   percent, much less than 1 percent.
22
2.3
                  QUESTION: In doing -- in applying
24
  market's willingness to pay, does the market willingness
25
  to pay -- is it assuming that the prices and the
```

```
features of all the other products in the market are --
 1
 2
   are not changing?
 3
                  ANSWER: So there are -- I have to
  elaborate in answering your question. Of course, prices
 4
 5
  and features of products change over time. That is
  nothing that's contradicted by this formula. But the
   formula is saying at any particular point in time, if
   you change only one feature of one product, what will it
   do to the unit sales and what is the compensating price
10
   increase which will leave the unit sales being the same?
                  So it does not assume that somehow prices
11
   and features don't change over time. They can change
12
13
   over time for what -- whatever reason.
14
                  (Videoclip ends.)
                  MR. DOVEL: That concludes that witness,
15
16
   Your Honor.
17
                  THE COURT: All right. Are there further
18
   deposition clips to play at this time?
19
                  MR. DOVEL: Not at this time, Your Honor.
20
                  THE COURT: All right. Then Plaintiff
21
   may call their next witness.
22
                  MR. DOVEL: Your Honor, the Plaintiff
2.3
   calls Mr. Robert Mills.
24
                  THE COURT: All right.
25
                  MS. WILLIAMS: Your Honor, may we
```

```
1
   approach?
2
                  THE COURT: You may.
3
                  Mr. Mills, if you'll come forward.
  You've been sworn, correct?
4
5
                  THE WITNESS: I have, Your Honor.
                  THE COURT: Please come have a seat in
6
   the witness stand.
8
                  (Bench conference.)
9
                  MS. WILLIAMS: Your Honor, I understand
10
  that we -- that in advance of Mr. Mills being called to
11
12
                  THE COURT: Just a moment. You're going
  to have to get closer to this.
13
                  MS. WILLIAMS: I understand that we are
14
15
  supposed to approach and lodge our objection on behalf
  of Microsoft to sealing the courtroom and -- and --
16
17
                  THE COURT: All right. This is where the
  that confidential information is going to come in?
19
                  MS. WILLIAMS: Yes, Your Honor.
20
                  THE COURT: All right. Do you have any
21
   idea how long the period of time we need to have the
22
   courtroom sealed for? I assume not for his entire
23
  testimony.
24
                  MR. DOVEL: That is correct. The issue
25
  is they -- there's two things. One is the -- the -- the
```

```
amount that Microsoft paid. That's one item of
1
2
   information. The other information is all on one slide.
  It's some data about Microsoft usage. So that will be
3
   -- the data about -- that -- the second part --
4
5
                  THE COURT: Is this -- is this coming in
  together, or is this coming in two different times?
6
7
                  MR. DOVEL: No, that's what I'm going to
8
   say. It's going to come actually at three different
9
   times, the very beginning and that stuff is in the
10
   middle, and then we circle back to the -- the amount
11
   again.
12
                  THE COURT: How long is his direct going
13
   to be in total?
14
                  MR. DOVEL: I'm going -- I'm going to
15
   estimate an hour.
16
                  THE COURT: You know, I don't really see
17
   anybody in the courtroom that's not part of one side or
18
   the other.
              My inclination, just so we don't have any
19
   more disruptions than are absolutely necessary, is to
20
   seal the courtroom throughout his testimony. Does
   anybody have a problem with that?
21
22
                  MS. WILLIAMS: No, Your Honor.
                                                  The one
   other -- the one other piece of -- concerning piece of
2.3
   information is that Microsoft has asked that our
24
25
   corporate rep, Ms. Ghosh, excuse herself if there's any
```

```
testimony regarding the licensing fees that Microsoft
1
          I believe that they are okay with the discussion
2
  of -- of the -- of the amount of the settlement and
3
  license agreement, but to the extent that we're going to
4
5
  be talking -- that Mr. Dovel is going to be asking
  questions that are going to elicit testimony about
6
   the -- the per phone licensing fees and the sales of
   that information, then Ms. Ghosh would have to be
8
9
   excused.
10
                  MR. DOVEL: That will not be elicited,
  Your Honor.
11
12
                  THE COURT: Okay. Then that's not a
13
  problem. I'm just concerned about the disruptions in
   the courtroom from sealing and unsealing and sealing and
14
   unsealing, sealing and unsealing. Okay. That -- that
15
   said, we'll probably take a recess before this direct is
16
   finished. But I'll seal the courtroom at this time, and
17
   we'll go forward unless there's something else we
18
19
  haven't touched on. Okay.
20
                  MS. WILLIAMS: No, Your Honor.
21
                  (Bench conference concluded.)
22
                  THE COURT: All right. Based on the
   agreement of the parties, the Court is going to seal the
23
24
   courtroom given that there are some highly confidential
25
   information that may be elicited at this time.
```

```
1
                  Mr. Floyd, I'm going to ask you as the
 2
   Court Security Officer to position yourself at the back
 3
   doors of the courtroom, and until I indicate otherwise,
   people inside have to stay and the people outside don't
 5
   come in.
                  Also, I need to verify for the record
 6
   that there's no one present in the courtroom not subject
 8
   to the existing protective order entered in this case,
 9
   outside of the jury and the court staff.
10
                  Counsel for either side aware of anybody
11
   present in the courtroom who would be problematic given
12
   this request to seal?
13
                  MR. DOVEL: Plaintiff is not aware of
14
   anyone.
15
                  MS. WILLIAMS: No, Your Honor. I do have
16
   one -- one additional matter.
17
                  We renew our pretrial motions related to
18
   Mr. Mills, Your Honor.
19
                  THE COURT: All right. Then with that
20
   clarified, we'll consider the courtroom sealed.
21
                  (Courtroom sealed.)
                     22
2.3
24
25
```

```
1
                          CERTIFICATION
 2
 3
                 I HEREBY CERTIFY that the foregoing is a
  true and correct transcript from the stenographic notes
 4
 5
  of the proceedings in the above-entitled matter to the
 6
  best of my ability.
 7
 8
9
   /s/__
10
                                           _1-14-14
   SHELLY HOLMES, CSR
                                           Date
  Official Court Reporter
11
   State of Texas No.: 7804
12 Expiration Date 12/31/14
13
14
   /s/
                                           1 - 14 - 14
   SUSAN SIMMONS, CSR
                                         Date
15
  Official Court Reporter
   State of Texas No.: 267
16
  Expiration Date 12/31/14
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